

Data sheets



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D3.03	<i>Analog pH/ORP armature SensoLyt®</i>
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D7.07	<i>Drinking water panel</i>
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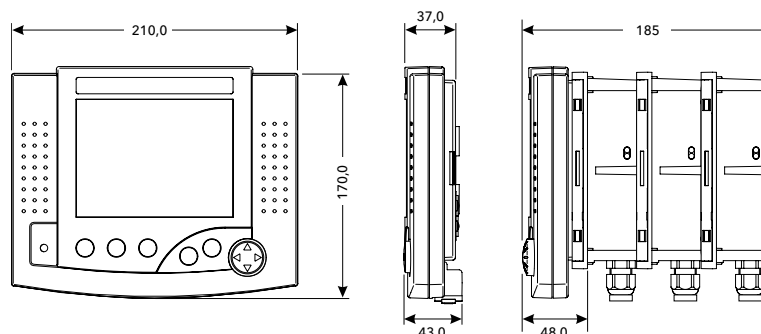
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IQ SENSOR NET Terminal/Controller

MIQ/TC 2020 3G - The heart of every IQ SENSOR NET system 2020, a multi-parameter system for up to 20 sensors with USB interface, remote maintenance and remote communication.

Terminal IQ - the costeffective supplement without Controller function.

We would like to inform you about the application range on our website



Technical Data

Model	Terminal-/Controller MIQ/TC 2020 3G	Terminal IQ
MIQ Module Coupling at Rear	Combined mechanical and electrical connection, for rapid coupling to MIQ modules	
USB interface	USB-A (host)	
Display	Graphic display; resolution: 320 x 240 pixel; visible area: 4.49 x 3.39 in. (114 x 86 mm), black/white, backlight	
Control Functions/Function Keys	5 operating keys: 3 master keys for functions: Measurement (M), calibration (C), set/system settings (S), 2 keys for: confirmation/switching menu O.K. (OK), Escape (ESC) 4-directional button for rapid selection of software functions and input of alphanumeric values	
Controller	Yes	No
Controller-BackUp	Yes	No
Conditions	None	Requires a MIQ/TC 2020 3G(XT) in the system
Datalogger	Data memory for up to 525,600 data sets	No, but all data can be downloaded on USB
Electric Supply	Directly via the IQ SENSOR NET when coupled to MIQ module	
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C) Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)	
Housing Material	ASA (Acrylonitrile-Styrene-Acryloesterpolymer)	
Protection Rating	IP 66 / corresponding to NEMA 4X (not for direct conduit connections). Conduits need to be connected with flexible adapters (CC-Box), respectively with adapters CC-PM..	
Dimensions (W x H x D)	8.27 x 6.69 x 1.57 in. (210 x 170 x 40 mm)	
Weight	Approx. 1.98 pounds (0.9 kg)	
Certifications	ETL, cETL (conforms with relevant UL and Canadian standards), CE	
Electromagnetic Compatibility	EN 61326-1, Class B; FCC Class A	
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system, implemented in each component	
Connection Characteristics	Comprehensive EMC shield control; cable topology within IQ SENSOR NET system as required, e.g. in the form of a line, tree, star, multiple star; Total cable length: max. 1000 m/1094 yds (without signal amplifying), with signal amplifying module MIQ/JBR additional 1000 m/1094 yds (max 3000 m/3282 yds)	
Warranty	3 years for defects of quality	

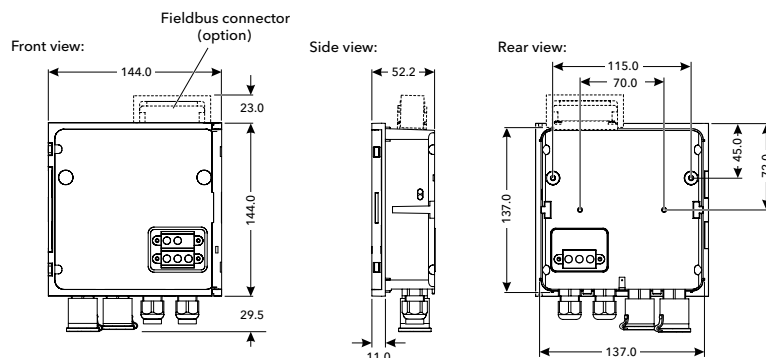
Model	Description	Order No.
MIQ/TC 2020 3G	Module IQ terminal/controller, configurable as a controller (fixed installation) or as a terminal with redundant controller function for system 2020, with USB interface, can be coupled to any IQ SENSOR NET module	470020
Terminal IQ	Like MIQ/TC 2020 3G, but without Controller(BackUp) function	470021
MIQ/TC 2020 3G-CR3	Starter set consisting of MIQ/TC 2020 3G terminal/controller, MIQ/CR3 combined output module with 3 analog outputs (0/4-20 mA) and 3 relay outputs, MIQ/PS wide range power supply	470022
MIQ/TC 2020 3G-C6	Starter set consisting of MIQ/TC 2020 3G terminal/controller, MIQ/C6 output module with 6 analog outputs (0/4-20 mA), MIQ/PS wide range power supply	470024
MIQ/TC 2020 3G-EF	Starter set consisting of MIQ/TC 2020 3G terminal/controller, MIQ/MC3 controller with fieldbus protocols, MIQ/PS wide range power supply	470026

IQ SENSOR NET Controller MIQ/MC3



The controller family with network connection via ethernet/WIFI interface for the multi-parameter system IQ SENSOR NET 2020 for up to 20 sensors

We would like to inform you about the application range on our website



Technical Data

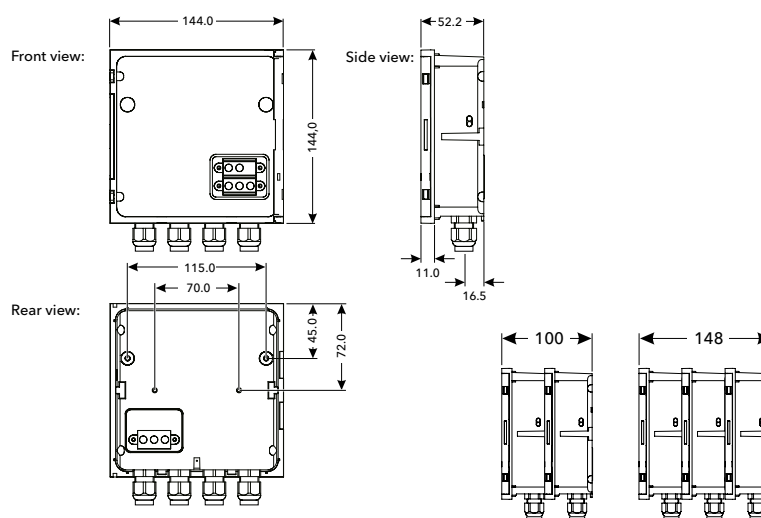
Model	Controller MIQ/MC3
MIQ Module Coupling at Front	Combined mechanical and electrical connection for rapid docking and removal of the MIQ/TC 2020 3G Terminal/Controller (configured as Terminal) and for docking additional modules
MIQ Module Coupling at Rear	Combined mechanical and electrical connection, for rapid coupling to MIQ modules, up to 3 modules as a stack mounted unit possible
Cable Feeds	2 screw cable glands M 16 x 1.5
Terminal Connections	Screw terminal strips Terminal area for solid conductors: 0.2 ... 4.0 mm ² Terminal area for flexible conductors: 0.2 ... 2.5 mm ² accessible by opening cover
IQ SENSOR NET Terminal Connections	Terminal connections for the IQ SENSOR NET are available on each module and can be used as required: - for connecting sensors - as an input/output or for looping through/branching of the IQ SENSOR NET cable
Other Functions	Two LEDs, yellow and red, for monitoring the operating voltage of the IQ SENSOR NET; IQ SENSOR NET connection, Integrated local identity function; Integrated switchable terminal resistor (SN terminator)
USB interface	USB-A
Ethernet port	RJ45 socket or LSA terminal strip can be used
Datalogger	Data memory for up to 525.600 data sets
Electric Supply	Directly via the IQ SENSOR NET when coupled to MIQ module
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C); Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)
Housing Material	ASA (Acrylonitrile-Styrene-Acryloesterpolymer)
Protection Rating	IP 66 / corresponding to NEMA 4X (not for direct conduit connections). Conduits need to be connected with flexible adapters (CC-Box), respectively with adapters CC-PM..
Dimensions (W x H x D)	5.67 x 6.81 x 2.05 in. (144 x 173 x 52 mm)
Weight	Approx. 1.98 pounds (0.9 kg)
Certifications	ETL, cETL (conforms with relevant UL and Canadian standards), CE
Electromagnetic Compatibility	EN 61326-1, Class B; FCC Class A
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system, implemented in each component
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm ² ; Filler cord for easy connection of shield: 0.75 mm ² ; pressure resistant to 10 bar
Connection Characteristics	Energy and data transfer via 2 wire technique; resistant to reversed polarity; Comprehensive EMC shield control; cable topology within IQ SENSOR NET system as required, e.g. in the form of a line, tree, star, multiple star; Total cable length: max. 1000 m/1094 yds (without signal amplifying), with signal amplifying module MIQ/JBR additional 1000 m/1094 yds (max 3000 m/3282 yds)
Warranty	3 years for defects of quality

Model	Description	Order No.
MIQ/MC3	Controller of the system 2020, for up to 20 sensors, with automatic air pressure compensation, USB and RJ45 interface for Ethernet fieldbuses (Ethernet/IP, Modbus TCP, PROFINET)	471020
MIQ/MC3-MOD	Like MIQ/MC3, but including MODBUS RTU/RS 485 interface (D-SUB plug connection ADA/D-SUB 902888, please order separately)	471022
MIQ/MC3-PR	Like MIQ/MC3, but including PROFIBUS-DP/RS 485 interface (D-SUB plug connection ADA/D-SUB 902888, please order separately)	471023

IQ SENSOR NET MIQ modules for power supply

Module to supply voltage to the system components in the IQ SENSOR NET – thanks to the modular principle and simple installation this is individually customizable

We would like to inform you about the application range on our website



Technical Data

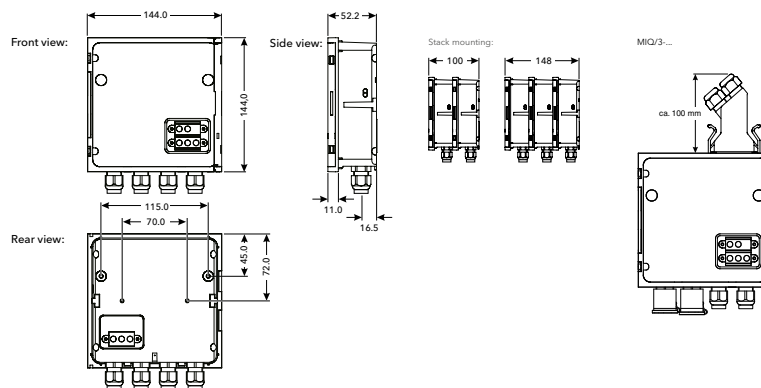
Models	MIQ module MIQ/PS	MIQ module MIQ/24V
MIQ Module Coupling at Front	Combined mechanical and electrical connection for rapid docking and removal of the MIQ/TC 2020 3G Terminal/Controller (configured as Terminal) and for docking additional modules	
MIQ Module Coupling at Rear	Combined mechanical and electrical connection, for rapid coupling to MIQ modules, up to 3 modules as a stack mounted unit possible	
Cable Feeds	4 screw cable glands M 16 x 1.5	
Terminal Connections	Screw terminal strips Terminal area for solid conductors: 0.2 ... 4.0 mm ² Terminal area for flexible conductors: 0.2 ... 2.5 mm ² accessible by opening cover	
IQ SENSOR NET Terminal Connections	Terminal connections for the IQ SENSOR NET are available on each module and can be used as required: - for connecting sensors - as an input/output or for looping through/branching of the IQ SENSOR NET cable	
Other Functions	Two LEDs, yellow and red, for monitoring the operating voltage of the IQ SENSOR NET; IQ SENSOR NET connection, Integrated local identity function; Integrated switchable terminal resistor (SN terminator)	
Electric Supply	Directly via the IQ SENSOR NET	
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C); Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)	
Housing Material	PC - 20 % GF (polycarbonate with 20 % fiberglass)	
Protection Rating	IP67	IP 66
	corresponding to NEMA 4X (not for direct conduit connections). Conduits need to be connected with flexible adapters (CC-Box), respectively with adapters CC-PM..	
Dimensions (W x H x D)	5.67 x 5.67 x 2.05 in. (144 x 144 x 52 mm)	
Weight	Approx. 1.1 pounds (0.5 kg)	
Certifications	ETL, cETL (conforms with relevant UL and Canadian standards), CE	
Electromagnetic Compatibility	EN 61326-1, Class B; FCC Class A	
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system, implemented in each component	
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm ² ; Filler cord for easy connection of shield: 0.75 mm ² ; pressure resistant to 10 bar	
Connection Characteristics	Energy and data transfer via 2 wire technique; resistant to reversed polarity; Comprehensive EMC shield control; cable topology within IQ SENSOR NET system as required, e.g. in the form of a line, tree, star, multiple star; Total cable length: max. 1000 m/1094 yds (without signal amplifying), with signal amplifying module MIQ/JBR additional 1000 m/1094 yds (max 3000 m/3282 yds)	
Warranty	3 years for defects of quality	

Model	Description	Order No.
MIQ/PS	Module IQ / power supply for voltage supply with wide range power supply for 100 – 240 VAC input voltage	480004
MIQ/24V	Module IQ / 24 V for voltage supply with 24 VAC or 24 VDC input voltage	480006

IQ SENSOR NET MIQ modules for outputs, inputs and communication

Module to transfer the measured values or with a alert/alarm function – thanks to the modular principle and simple installation this is individually customizable

We would like to inform you about the application range on our website



Technical Data

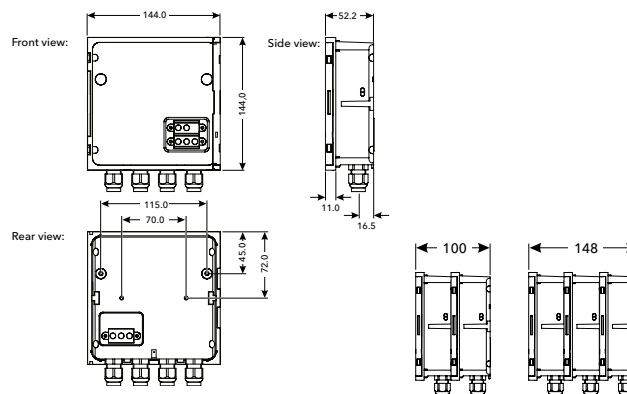
Models MIQ module	MIQ/3-MOD	MIQ/3-PR	MIQ/CR3	MIQ/C6	MIQ/R6	MIQ/IC2
MIQ Module Coupling at Front	Combined mechanical and electrical connection for rapid docking and removal of the MIQ/TC 2020 3G Terminal/Controller (configured as Terminal) and for docking additional modules					
MIQ Module Coupling at Rear	Combined mechanical and electrical connection, for rapid coupling to MIQ modules, up to 3 modules as a stack mounted unit possible					
Cable Feeds	3 screw cable glands M 16 x 1.5 and 1 USB		4 screw cable glands M 16 x 1.5			
Terminal Connections	Screw terminal strips Terminal area for solid conductors: 0.2 ... 4.0 mm² Terminal area for flexible conductors: 0.2 ... 2.5 mm² accessible by opening cover					
IQ SENSOR NET Terminal Connections	Terminal connections for the IQ SENSOR NET are available on each module and can be used as required: - for connecting sensors - as an input/output or for looping through/branching of the IQ SENSOR NET cable					
Other Functions	Two LEDs, yellow and red, for monitoring the operating voltage of the IQ SENSOR NET; IQ SENSOR NET connection, Integrated local identity function; Integrated switchable terminal resistor (SN terminator)					
Electric Supply	Directly via the IQ SENSOR NET					
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C); Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)					
Housing Material	PC - 20 % GF (polycarbonate with 20 % fiberglass)					
Protection Rating	IP 66	IP 66	IP 67	IP 66	IP 67	IP 66
	corresponding to NEMA 4X (not for direct conduit connections). Conduits need to be connected with flexible adapters (CC-Box), respectively with adapters CC-PM..					
Dimensions (W x H x D)	5.67 x 5.67 x 2.05 in. (144 x 144 x 52 mm)					
Weight	Approx. 1.1 pounds (0.5 kg)					
Certifications	ETL, cETL (conforms with relevant UL and Canadian standards), CE					
Electromagnetic Compatibility	EN 61326-1, Class B; FCC Class A					
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system, implemented in each component					
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm²; Filler cord for easy connection of shield: 0.75 mm²; pressure resistant to 10 bar					
Connection Characteristics	Energy and data transfer via 2 wire technique; resistant to reversed polarity; Comprehensive EMC shield control; cable topology within IQ SENSOR NET system as required, e.g. in the form of a line, tree, star, multiple star; Total cable length: max. 1000 m/1094 yds (without signal amplifying), with signal amplifying module MIQ/JBR additional 1000 m/1094 yds (max 3000 m/3282 yds)					
Warranty	3 years for defects of quality					

Model	Description	Order No.
MIQ/3-MOD	Module IQ with MODBUS RTU / RS 485 connection (output module, digital)	471026
MIQ/3-PR	Module IQ with PROFIBUS-DP connection (output module, digital)	471027
MIQ/R6	Module IQ / relay 6 with 6 relay outputs (output module, analog)	480013
MIQ/CR3	Module IQ / current relay 3, with 3 power and 3 relay outputs output module (analog)	480014
MIQ/C6	Module IQ / Current 6 with 6 power outputs (output module, analog)	480015
MIQ/IC2	Module IQ / input Current 2 with 2 inputs for 0/4 - 20 mA signals (input module); every populated power input counts as an IQ sensor	480016

IQ SENSOR NET MIQ modules for system expansion

The IQ SENSOR NET grows with its tasks - modules for individual system expansions with up to 4 IQSN connections and wireless communication

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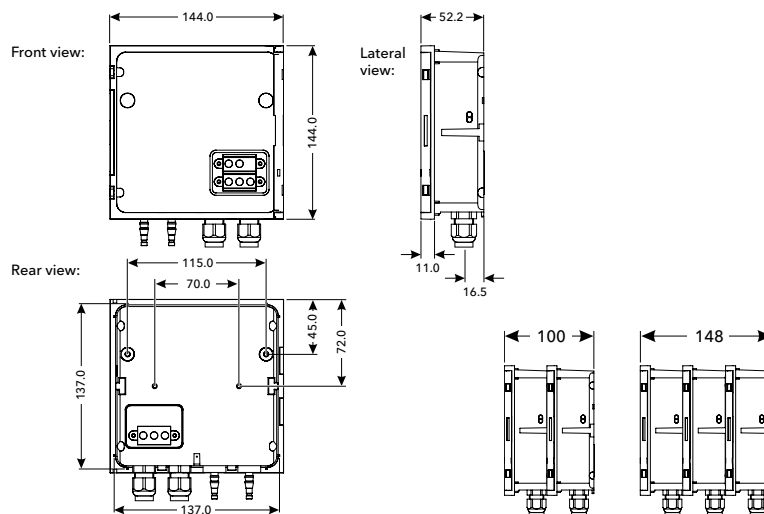
Technical Data

Models	MIQ modules MIQ/JB(R)		MIQ modules MIQ/WL PS (SET)
MIQ Module Coupling at Front	Combined mechanical and electrical connection for rapid docking and removal of the MIQ/TC 2020 3G Terminal/Controller (configured as Terminal) and for docking additional modules		
MIQ Module Coupling at Rear	Combined mechanical and electrical connection, for rapid coupling to MIQ modules, up to 3 modules as a stack mounted unit possible		
Cable Feeds	4 screw cable glands M 16 x 1.5		
Terminal Connections	Screw terminal strips Terminal area for solid conductors: 0.2 ... 4.0 mm² Terminal area for flexible conductors: 0.2 ... 2.5 mm² accessible by opening cover		
IQ SENSOR NET Terminal Connections	Terminal connections for the IQ SENSOR NET are available on each module and can be used as required: - for connecting sensors - as an input/output or for looping through/branching of the IQ SENSOR NET cable		
Other Functions	Two LEDs, yellow and red, for monitoring the operating voltage of the IQ SENSOR NET; IQ SENSOR NET connection, Integrated local identity function; Integrated switchable terminal resistor (SN terminator)		
Electric Supply	Directly via the IQ SENSOR NET		
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C); Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)		
Housing Material	PC - 20 % GF (polycarbonate with 20 % fiberglass)		
Protection Rating	IP 66	IP 67	
	corresponding to NEMA 4X (not for direct conduit connections). Conduits need to be connected with flexible adapters (CC-Box), respectively with adapters CC-PM..		
Dimensions (W x H x D)	5.67 x 5.67 x 2.05 in. (144 x 144 x 52 mm)		
Weight	Approx. 1.1 pounds (0.5 kg)		
Certifications	ETL, cETL (conforms with relevant UL and Canadian standards), CE		
Electromagnetic Compatibility	EN 61326-1, Class B; FCC Class A		
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system, implemented in each component		
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm²; Filler cord for easy connection of shield: 0.75 mm²; pressure resistant to 10 bar		
Connection Characteristics	Energy and data transfer via 2 wire technique; resistant to reversed polarity; Comprehensive EMC shield control; cable topology within IQ SENSOR NET system as required, e.g. in the form of a line, tree, star, multiple star; Total cable length: max. 1000 m/1094 yds (without signal amplifying), with signal amplifying module MIQ/JBR additional 1000 m/1094 yds (max 3000 m/3282 yds)		
Connection Medium Radio	Radio with a coverage of 109 yds (100 m)		
Connection Characteristics	Data transmission, separate power supply necessary for each island		
Warranty	3 years for defects of quality		
Model	Description	Order No.	
MIQ/JB	Modul IQ/Junction Box, for system branching, for system 2020 and 282/284, 4 free IQ SENSOR NET connections	480008	
MIQ/JBR	Modul IQ / Junction Box Repeater, for system branching, for system 2020 and 282/284, with active signal preparation	480010	
MIQ/WL PS SET	2 MIQ/WL PS radio modules, preconfigured as master and slave, ready to operate	480025	
MIQ/WL PS	1 MIQ/WL PS radio module, preconfigured as a slave to expand a radio network	480023	

IQ SENSOR NET MIQ module for compressed air cleaning

Whether automatic or sensor triggered (for spectral sensors) - the MIQ/CHV Plus provides both, easy installation included

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Technical Data

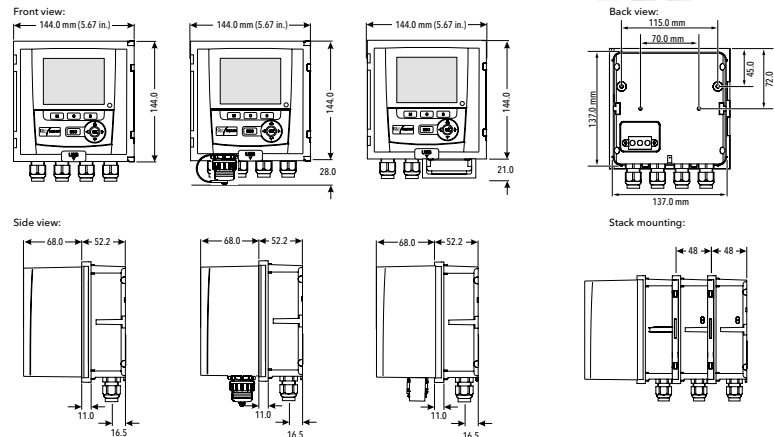
Model	MIQ module MIQ/CHV Plus
MIQ Module Coupling at Front	Combined mechanical and electrical connection for rapid docking and removal of the MIQ/TC 2020 3G Terminal/Controller (configured as Terminal) and for docking additional modules
MIQ Module Coupling at Rear	Combined mechanical and electrical connection, for rapid coupling to MIQ modules, up to 3 modules as a stack mounted unit possible
Cable Feeds	2 screw cable glands M 16 x 1.5 and 2 pressure hose nozzle
Terminal Connections	Screw terminal strips Terminal area for solid conductors: 0.2 ... 4.0 mm ² Terminal area for flexible conductors: 0.2 ... 2.5 mm ² accessible by opening cover
IQ SENSOR NET Terminal Connections	Terminal connections for the IQ SENSOR NET are available on each module and can be used as required: - for connecting sensors - as an input/output or for looping through/branching of the IQ SENSOR NET cable
Other Functions	Two LEDs, yellow and red, for monitoring the operating voltage of the IQ SENSOR NET; IQ SENSOR NET connection, Integrated local identity function; Integrated switchable terminal resistor (SN terminator)
Electric Supply	Directly via the IQ SENSOR NET
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C); Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)
Housing Material	PC - 20 % GF (polycarbonate with 20 % fiberglass)
Protection Rating	IP 66 / corresponding to NEMA 4X (not for direct conduit connections). Conduits need to be connected with flexible adapters (CC-Box), respectively with adapters CC-PM..
Dimensions (W x H x D)	5.67 x 5.67 x 2.05 in. (144 x 144 x 52 mm)
Weight	Approx. 1.1 pounds (0.5 kg)
Certifications	ETL, cETL (conforms with relevant UL and Canadian standards), CE
Electromagnetic Compatibility	EN 61326-1, Class B; FCC Class A
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system, implemented in each component
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm ² ; Filler cord for easy connection of shield: 0.75 mm ² ; pressure resistant to 10 bar
Connection Characteristics	Energy and data transfer via 2 wire technique; resistant to reversed polarity; Comprehensive EMC shield control; cable topology within IQ SENSOR NET system as required, e.g. in the form of a line, tree, star, multiple star; Total cable length: max. 1000 m/1094 yds (without signal amplifying), with signal amplifying module MIQ/JBR additional 1000 m/1094 yds (max 3000 m/3282 yds)
Warranty	3 years for defects of quality

Model	Description	Order No.
MIQ/CHV PLUS	Module IQ/Cleaning Head Valve for automatic relay or IQ SENSOR NET controlled compressed air cleaning (relay and compressed air supply, external)	480018

IQ SENSOR NET DIQ 282

Controller for small and mid-sized waste-water treatment plants including USB-interface and internal data logger- up to 2 sensors, all parameters, available anytime

We would like to inform you about the application range on our website



Technical Data

Controller	DIQ/S 282-CR3	DIQ/S 282-PR	DIQ/S 282-MOD	DIQ/S 282-CR3-E	DIQ/S 282-EF
Max. number of sensors	2				
IQ SENSOR NET connections	1	2	2	1	2
Outputs	3 x (0) 4-20 mA, 3 x Relais	PROFIBUS, 3 x Relais	Modbus RTU, 3 x Relais	3 x (0) 4-20 mA, 3 x Relais, RJ45 for remote access	Profinet, Modbus TCP, Ethernet IP, 3 x Relais
Display	Graphic TFT Display; Resolution: 320 x 240 pixel; backlight				
Control Functions/ Function Keys	5 operating keys: measurement (M), calibration (C), set/system settings (S), 3 master keys for functions: 2 keys for: confirmation/switching menu O.K. (OK), escape (ESC) Arrow keys for rapid selection of software functions and input of alpha-numeric values (up), (down)				
Electric Supply	100 ... 240 VAC (50/60 Hz), 24 V AC/DC				
MIQ Module Coupling at Rear	Combined mechanical and electrical connection, for rapid coupling to MIQ modules, up to 3 modules as a stack mounted unit possible				
Cable Feeds	4 screw cable glands M 16 x 1.5 (expandable to M 20 if required)				
Terminal Connections	Screw terminal strips; Terminal area for solid conductors: 0.2 ... 4.0 mm ² Terminal area for flexible conductors: 0.2 ... 2.5 mm ² ; accessible by opening cover				
IQ SENSOR NET Terminal Connections	Terminal connections for the IQ SENSOR NET for connecting sensors				
USB interface	USB-A				
Datalogger	Data memory for up to 525,600 data sets				
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C); Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)				
Housing Material	PC - 20 % GF (polycarbonate with 20 % fiberglass)				
Protection Rating	IP 67 / corresponding to NEMA 4X (not for direct conduit connections). Conduits need to be connected with flexible adapters (CC-Box), respectively with adapters CC-PM..				
Weight	Approx. 1,2 kg (2.6 pounds)				
Certifications	CE				
Electromagnetic Compatibility	EN 61326-1, Class A; FCC Class A				
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system				
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm ² ; filler cord for easy connection of shield: 0.75 mm ² ; pressure resistant to 10 bar				
Connection Characteristics	Power supply and data transmission on these wires; resistant to polarity reversal with respect to switched shield and inner conductor (no damage); comprehensive EMC shield control; Cable topology within the IQ SENSOR NET system as required, e.g. in the form of a line, tree, star; total cable length max. 250 m (273 yds)				
Warranty	3 years for defects of quality				

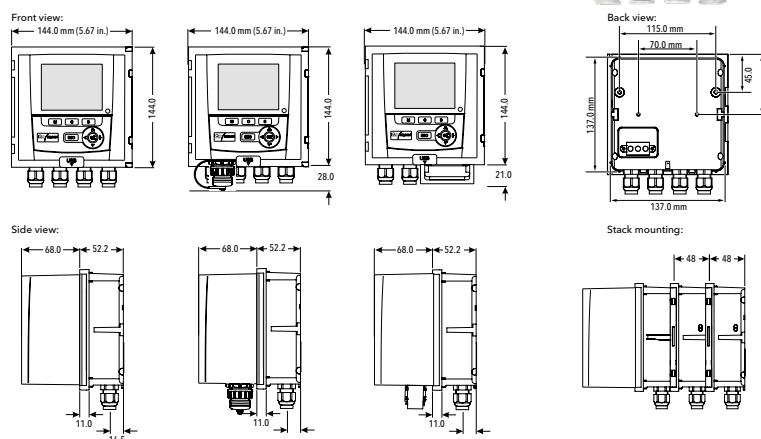
Model	Description	Order No.
DIQ/S 282-CR3	Controller for up to 2 IQ sensors, 100 ... 240 VAC, with 3 Relays, with 3 mA-outputs	472110
DIQ/S 282-PR	Like above, but with PROFIBUS-interface (RS 485)	472111
DIQ/S 282-MOD	Like above, but with 3 Relays, with MODBUS-interface (RS 485)	472112
DIQ/S 282-CR3-E	Like above, but with 3 Relays, with 3 mA-outputs, with Ethernet-interface (RJ 45) for network connection	472113
DIQ/S 282-EF	Like above, but with 3 Relays, with Ethernet-interface (RJ 45) for network connection and fieldbuses (Ethernet/IP, Modbus TCP, PROFINET)	472114

All versions available for 24 V AC/DC

IQ SENSOR NET DIQ 284

Controller for small and mid-sized waste-water treatment plants including USB-interface and internal data logger- up to 4 sensors, all parameters, available anytime

We would like to inform you about the application range on our website



Technical Data

Controller	DIQ/S 284-CR6	DIQ/S 284-PR	DIQ/S 284-MOD	DIQ/S 284-CR6-E	DIQ/S 284-EF
Max. number of sensors	4				
IQ SENSOR NET connections	3	2	2	3	2
Outputs	6 x (0) 4-20 mA, 6 x Relais	PROFIBUS, 3 x Relais	Modbus RTU, 3 x Relais	6 x (0) 4-20 mA, 6 x Relais, RJ45 for remote access	Profinet, Modbus TCP, Ethernet IP, 3 x Relais
Display	Graphic TFT Display; Resolution: 320 x 240 pixel; backlight				
Control Functions/ Function Keys	5 operating keys: measurement (M), calibration (C), set/system settings (S), 3 master keys for functions: 2 keys for: confirmation/switching menu O.K. (OK), escape (ESC) Arrow keys for rapid selection of software functions and input of alpha-numeric values (up), (down)				
Electric Supply	100 ... 240 VAC (50/60 Hz), 24 V AC/DC				
MIQ Module Coupling at Rear	Combined mechanical and electrical connection, for rapid coupling to MIQ modules, up to 3 modules as a stack mounted unit possible				
Cable Feeds	4 screw cable glands M 16 x 1.5 (expandable to M 20 if required)				
Terminal Connections	Screw terminal strips; Terminal area for solid conductors: 0.2 ... 4.0 mm ² Terminal area for flexible conductors: 0.2 ... 2.5 mm ² ; accessible by opening cover				
IQ SENSOR NET Terminal Connections	Terminal connections for the IQ SENSOR NET for connecting sensors				
USB interface	USB-A				
Datalogger	Data memory for up to 525,600 data sets				
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C); Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)				
Housing Material	PC - 20 % GF (polycarbonate with 20 % fiberglass)				
Protection Rating	IP 67 / corresponding to NEMA 4X (not for direct conduit connections). Conduits need to be connected with flexible adapters (CC-Box), respectively with adapters CC-PM..				
Weight	Approx. 1,7 kg (3.7 pounds)				
Certifications	CE				
Electromagnetic Compatibility	EN 61326-1, Class A; FCC Class A				
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system				
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm ² ; filler cord for easy connection of shield: 0.75 mm ² ; pressure resistant to 10 bar				
Connection Characteristics	Power supply and data transmission on these wires; resistant to polarity reversal with respect to switched shield and inner conductor (no damage); comprehensive EMC shield control; Cable topology within the IQ SENSOR NET system as required, e.g. in the form of a line, tree, star; total cable length max. 250 m (273 yds)				
Warranty	3 years for defects of quality				

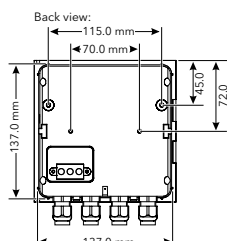
Model	Description	Order No.
DIQ/S 284-CR6	Controller for up to 4 IQ sensors, 100 ... 240 VAC, with 6 Relays, with 6 mA-outputs	472130
DIQ/S 284-PR	Like above, but with 3 Relays, with PROFIBUS-interface (RS 485)	472131
DIQ/S 284-MOD	Like above, but with 3 Relays, with MODBUS-interface (RS 485)	472132
DIQ/S 284-CR6-E	Like above, but with 6 Relays, with 6 mA-outputs, with Ethernet-interface (RJ 45) for network connection	472133
DIQ/S 284-EF	Like above, but with 3 Relays, with Ethernet-interface (RJ 45) for network connection and fieldbuses (Ethernet/IP, Modbus TCP, PROFINET)	472134

All versions available for 24 V AC/DC

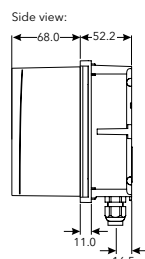
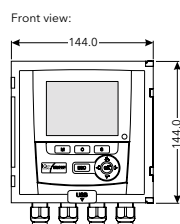
IQ SENSOR NET System 281

The System 281 – digital and economic single parameter measuring unit of the IQ SENSOR NET. For pH/ORP, O₂, turbidity, TSS, conductivity or sludge level with the latest IQ SENSOR NET technology.

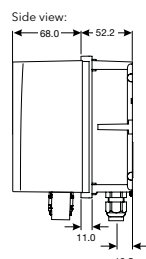
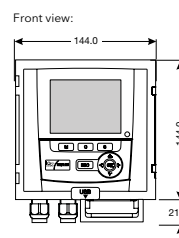
We would like to inform you about the application range on our website



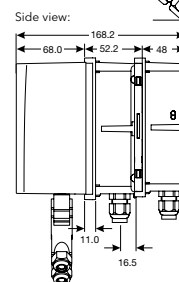
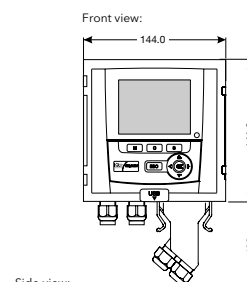
DIQ/S 281-CR2(/24V)



DIQ/S 281-MOD



DIQ/S 281-HART



Technical Data

Controller	DIQ/S 281-CR2	DIQ/S 281-CR2/24V	DIQ/S 281-MOD	DIQ/S 281-HART
Max. number of sensors	1			
IQ SENSOR NET connections	1			
Communication	2 x (0) 4 ... 20 mA, 2 x Relays		MODBUS RTU, 2 x Relays	HART, 2 x Relays
Display	Graphic TFT Display; Resolution: 320 x 240 pixel; backlit			
Control Functions/ Function Keys	5 operating keys: measurement (M), calibration (C), set/system settings (S), 3 master keys for functions: 2 keys for: confirmation/switching menu O.K. (OK), escape (ESC) Arrow keys for rapid selection of software functions and input of alpha-numeric values (up), (down)			
Electric Supply	100 ... 240 VAC (50/60 Hz)	24 V AC/DC	100 ... 240 VAC (50/60 Hz)	
Modules	DIQ/JB, DIQ/CHV and MIQ/WL PS SET			
Cable Feeds	4 screw cable glands M 16 x 1.5 (expandible to M 20 if required)			
Terminal Connections	Screw terminal strips; Terminal area for solid conductors: 0.2 ... 4.0 mm ² Terminal area for flexible conductors: 0.2 ... 2.5 mm ² ; accessible by opening cover			
USB interface	USB-A for software updates			
Ambient Conditions	Operating temperature: -4 °F ... 131 °F (-20 °C ... +55 °C); Storage temperature: -13 °F ... 149 °F (-25 °C ... +65 °C)			
Housing Material	PC - 20 % GF (polycarbonate with 20 % fiberglass)			
Protection Rating	IP 67 / corresponding to NEMA 4X (not for direct conduit connections).			
Weight	Approx. 1,2 kg (2.6 pounds)			
Certifications	CE			
Electromagnetic Compatibility	EN 61326-1, Class A; FCC Class A			
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system			
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm ² ; filler cord for easy connection of shield: 0.75 mm ² ; pressure resistant to 10 bar			
Connection Characteristics	Power supply and data transmission on these wires; resistant to polarity reversal with respect to switched shield and inner conductor (no damage); comprehensive EMC shield control; Cable topology within the IQ SENSOR NET system as required, e.g. in the form of a line, tree, star; total cable length max. 250 m (273 yds)			
Warranty	3 years for defects of quality			

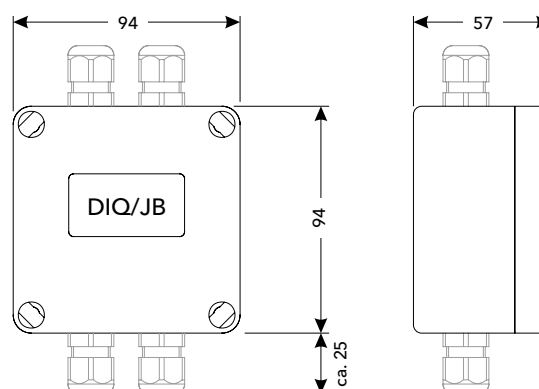
Model	Description	Order No.
DIQ/S 281-CR2	Dual IQ/System 281, Universal monitor for the connection of 1 digital IQ sensor (pH/ORP, O ₂ , conductivity or turbidity), with 2 analog outputs (0/4-20 mA) and 2 relays, 100 ... 240 VAC	472103
DIQ/S 281-CR2/24V	Like the DIQ/S 281, but for 24 V AC/DC voltage supply	472104
DIQ/S 281-MOD	Like the DIQ/S 281, but with MODBUS interface (RS 485) and 2 relays, 100 ... 240 VAC (Please order separately D-SUB connection ADA/D-SUB 902888)	472105
DIQ/S 281-HART	Like the DIQ/S 281, but with HART interface and 2 relays, 100 ... 240 VAC	472106

IQ SENSOR NET DIQ modules

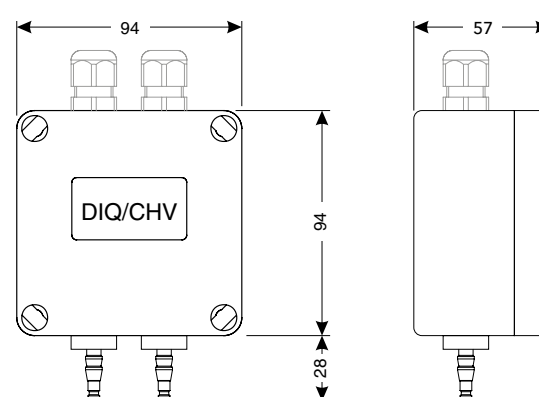
Modules for the flexible expansion of digital IQ SENSOR NET systems 181, 281 and 282/284 by additional measuring points or functions - compact design

We would like to inform you about the application range on our website

DIQ/JB



DIQ/CHV



Technical Data

Models DIQ-Modul	DIQ/JB	DIQ/CHV
Cable Feeds	3 screw cable glands M 16 x 1.5	2 screw cable glands M 16 x 1.5 and 2 pressure hose nozzle
Terminal Connections	Screw terminal strips Terminal area for solid conductors: 0.2 ... 4.0 mm ² Terminal area for flexible conductors: 0.2 ... 2.5 mm ² accessible by opening cover	
Housing Material	Polystyrene	
Protection Rating	IP 66	
Dimensions (W x H x D)	94 x 94 x 57 mm (3.7 x 3.7 x 2.24 in.)	
Weight	0.44 lbs (0.2 kg)	0.66 lbs (0.3 kg)
Certifications	CE	
Electromagnetic Compatibility	EN 61326-1, Emission: Class A, FCC Class A	
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system	
Connection Medium Cable	IQ SENSOR NET cable SNCIQ or SNCIQ/UG (underground cable with additional PVC coating): 2-wire with shield; 2 x 0.75 mm ² ; Filler cord for easy connection of shield: 0.75 mm ² ; pressure resistant to 10 bar	
Connection Characteristics	Energy and data transfer via 2 wire technique; resistant to reversed polarity; Comprehensive EMC shield control; cable topology within IQ SENSOR NET system as required, e.g. in the form of a line, tree, star, multiple star; Total cable length: max. 250 m/273 yds	
Warranty	3 years for defects of quality	

Model	Description	Order No.
DIQ/JB	Dual IQ/Junction Box to connect a second or remote IQ sensor in the system 181, 281 and 282/284	472005
DIQ/CHV	Dual IQ/Cleaning Head Valve, for the automatic relay-controlled compressed air cleaning in the system 181, 281 and 282/284	472007

IQ SENSOR NET Cable

One connection for all IQ sensors via the universal **SACIQ sensor cable**, including a version for corrosive media.

Specific two-wire **SNCIQ connection cable** with shield for safe power and information transfer within the IQ SENSOR NET system (also for underground installation).

We would like to inform you about the application range on our website



Technical Data (excerpt)

Model	SNCIQ(UG)	SACIQ	SACIQ (SW)
Type of connection	Module to module, UG for underground installation	Module to sensor	Module to sensor, for corrosive media
Allowed temperature	-31 °F ... 176 °F (-35 °C ... +80 °C)		
Minimum bend radius	3.15 in. (80 mm)		
Outer diameter	0.31 ± 0.01 in. (8.0 ± 0.3 mm)		
Cores	2-wire with shield; 2 x 0.001 in. ² (0.75 mm ²); Filler cord for easy connection of shield: 0.001 in. ² (0.75 mm ²); pressure resistant to 10 bar		
Core colors	Red, green		
Shield	Braid of tinned copper wires, optical coverage min. 95 %		
Material	Wire insulation: LDPE Sheath: PUR (flame retardant) UV resistant (UG: double sheath)	Wire insulation: LDPE Sheath: PUR (flame retardant) UV resistant Sensorhead: Stainless steel, POM	Wire insulation: LDPE Sheath: PUR (flame retardant) UV resistant Sensorhead: Titanium, POM
Pressure resistance	10 bar (radial watertight)		
Integrated Overvoltage Protection	According to EN 61326-1 enhanced overvoltage protection for the entire system, implemented in each component		
Connection Characteristics	Comprehensive EMC shield control; cable topology within IQ SENSOR NET system as required, e.g. in the form of a line, tree, star, multiple star; Total cable length: max. 1000 m/1094 yds (without signal amplifying), with signal amplifying module MIQ/JBR additional 1000 m/1094 yds (max 3000 m/3282 yds)		

Model	Description	Order No.
Sensor adapter cable SACIQ (Module–Sensor)		
SACIQ-1,5	Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 1.5 m (4.9 ft)	480040
SACIQ-7,0	Like SACIQ-1,5, but with cable length 7 m (23 ft)	480042
SACIQ-15,0	Like SACIQ-1,5, but with cable length 15 m (49 ft)	480044
SACIQ-SO	Like SACIQ-1,5, but with customized cable length up to 100 m (330 ft)	480041V
SACIQ-20,0 SW	Sensor adapter cable for all IQ sensors, in seawater design, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 20 m (65 ft), with screwable SACIQ-Plug	480045
SACIQ-25,0 SW	Like SACIQ-20 SW, but with cable length 25 m (82 ft)	480066
SACIQ-50,0 SW	Like SACIQ-20 SW, but with cable length 50 m (162 ft)	480060
SACIQ-SO SW	Like SACIQ-20 SW, but with customized cable length up to 100 m (330 ft)	480064V
SACIQ-Plug	Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
Connection cable SNCIQ (Module–Module)		
SNCIQ-100	Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Cable reel with 100 m (109 yds)	480068
SNCIQ-200	Specific two-wire IQ Sensor Net cable with shield for safe power/information transfer Like SNCIQ-100, but with cable length 200 m (119 yds)	480069
SNCIQ-250	Specific two-wire IQ Sensor Net cable with shield for safe power/information transfer Like SNCIQ-100, but with cable length 250 m (273 yds)	480070
SNCIQ-500	Specific two-wire IQ Sensor Net cable with shield for safe power/information transfer Like SNCIQ-100, but with cable length 500 m (547 yds).	480072
SNCIQ - SO	Like SNCIQ-100, but please indicate cable length in m when ordering (unit: m)	480046V
SNCIQ/UG-250	Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system, esp. for use in underground. Cable reel with 250 m (273 yds).	480075
SNCIQ/UG- SO	Like SNCIQ/UG-250, but please indicate cable length in m when ordering (unit: m)	480047V

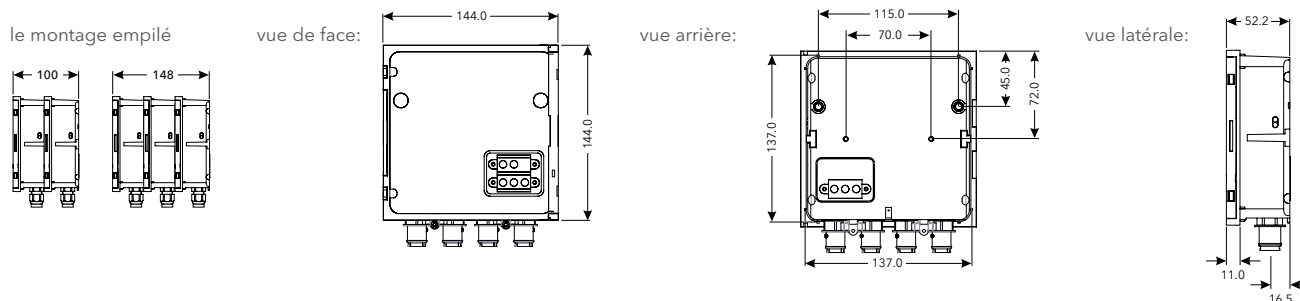


Modules MIQ pour capteur IDS d'IQ SENSOR NET



Modules permettant de connecter des capteurs IDS pour la surveillance de l'eau potable. Peut être combiné avec tous les systèmes IQ SENSOR NET.

Nous aimerions vous informer de la gamme des applications sur notre site web



Modèles Modules	MIQ/IDS1	MIQ/IDS2	MIQ/IDS4
MIQ Couplage du module MIQ à l'avant	Connexion mécanique et électrique combinée pour une mise en place et un retrait rapides du terminal/contrôleur MIQ/TC 2020 3G (configuré en tant que terminal) et pour la mise en place de modules supplémentaires.		
Couplage du module MIQ à l'arrière	Connexion mécanique et électrique combinée, pour un couplage rapide avec les modules MIQ, possibilité de monter jusqu'à 3 modules empilés		
Montage	Par câble SNCIQ/UG) ou par montage empilé		Montage empilé
Prises IDS	1	2	4
	Pour le branchement des capteurs IDS, sécurisé par une fermeture à baïonnette		
Connexions aux bornes du réseau de capteurs IQ	2 presse-étoupes M 16 x 1,5 - Barrettes à bornes à vis - Zone des bornes pour les conducteurs solides: 0.2 ... 4.0 mm ² - Zone de raccordement pour les conducteurs flexibles: 0.2 ... 2.5 mm ² - accessible en ouvrant le couvercle peut être utilisé selon les besoins - pour le raccordement des capteurs - en tant qu'entrée/sortie ou pour le bouclage/le branchement du câble IQ SENSOR NET		-
Autres fonctions	Deux DEL, jaune et rouge, pour surveiller la tension de fonctionnement de l'IQ SENSOR NET; connexion à l'IQ SENSOR NET, fonction d'identité locale intégrée ; résistance terminale commutable intégrée (terminateur SN)		
Alimentation électrique	Directement via le réseau de capteurs IQ		
Conditions ambiantes	Température de fonctionnement: -4°F...131°F (-20 °C ... +55 °C); Température de stockage: -13°F ... 149°F (-25°C...+65°C)		
Matériau du boîtier	PC - 20 % GF (polycarbonate avec 20 % de fibre de verre)		
Indice de protection	IP66 ; correspondant à NEMA 4X (pas pour les connexions directes de conduits). Les conduits doivent être raccordés avec des adaptateurs flexibles (CC-Box), respectivement avec des adaptateurs CC-PM...		
Dimensions (W x H x D)	5.67 x 5.67 x 2.05 in. (144 x 144 x 52 mm)		
Weight	Environ 1 kg		
Certifications	ETL, cETL (conforme aux normes UL et canadiennes pertinentes), CE, UKCA		
Compatibilité électromagnétique	EN 61326-1, Classe A ; FCC Classe A		
Protection contre les surtensions intégrée	Conformément à la norme EN 61326-1, protection renforcée contre les surtensions pour l'ensemble du système, mise en oeuvre dans chaque composant.		
Moyen de connexion Câble	IQ SENSOR NET câble SNCIQ ou SNCIQ/UG (câble souterrain avec revêtement PVC supplémentaire): 2 fils avec blindage; 2 x 0,75 mm ² ; cordon de remplissage pour faciliter le raccordement du blindage: 0,75 mm ² ; résistant à la pression jusqu'à 10 bars		
Caractéristiques de connexion	Transfert d'énergie et de données via une technique à 2 fils ; résistant à l'inversion de polarité ; contrôle complet du blindage CEM ; topologie de câble dans le système IQ SENSOR NET selon les besoins, par exemple sous forme de ligne, d'arbre, d'étoile, d'étoile multiple ; longueur totale du câble : max. 1000 m/1094 yds (sans amplificateur de signal), avec le module d'amplification de signal MIQ/JBR 1000 m/1094 yds supplémentaires (max 3000 m/3282 yds)		
Garantie	3 ans pour les défauts de qualité		

Modèle	Description	Référence
MIQ/IDS1	Module IQ pour connecter 1 capteur IDS et 2 capteurs IQ	480031
MIQ/IDS2	Module IQ pour connecter 2 capteurs IDS et 2 capteurs IQ	480032
MIQ/IDS4	Module IQ pour connecter 4 capteurs IDS	480034

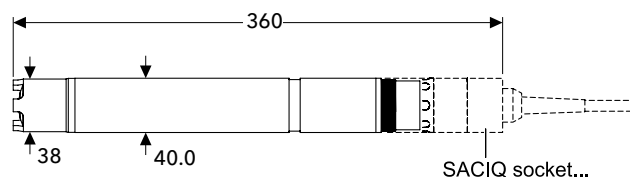


Digital electro-chemical IQ sensors for dissolved oxygen TriOxmatic®

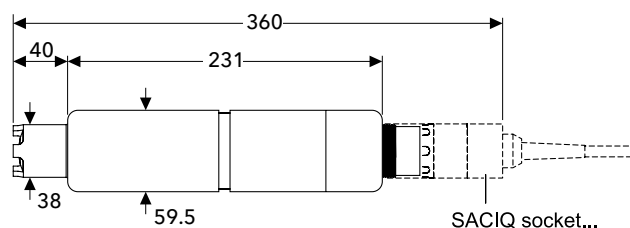
Reliable and proven digital electro-chemical oxygen sensors with 3 electrode system (ECDO) for precise and accurate measurements

We would like to inform you about the application range on our website

TriOxmatic® 700 IQ



TriOxmatic® 700 IQ SW



Technical Data

Model	TriOxmatic® 700 IQ	TriOxmatic® 700 IQ SW*	TriOxmatic® 701 IQ	TriOxmatic® 702 IQ
Measuring method	Amperometric			
Measuring range (25 °C)				
O₂ concentration	0.0 ... 60.0 mg/l		0.00 ... 20.00 mg/l 0.0 ... 60.0 mg/l 0.0 ... 200.0% 0 ... 600%	0 ... 2000 µg/l 0.00 ... 10.00 mg/l 0 ... 110%
O₂ saturation	0 ... 600%			
Resolution				
O₂ concentration	0.1 mg/l		0.01 mg/l 0.1 mg/l 0.1% 1%	0.001 mg/l 0.01 mg/l 0.1%
O₂ saturation	1%			
Accuracy	Depending on calibration ±0.1 mg/l or 1 % (at 0.0 ... 60.0 mg/l)			
Response time at 25 °C	t ₉₀ : 180 s		t ₉₀ : 30 s t ₉₉ : 90 s	t ₉₀ : 30 s t ₉₉ : 110 s
Minimum flow rate	0.05 m/s		0.23 m/s	0.3 m/s
SensCheck	SensLeck SensReg	SensReg	SensLeck SensReg	– SensReg
Temp. measurement	Integrated NTC, 23 °F ... 140 °F (-5 °C ... +60 °C) ± 0.5 °C			
Temp. compensation	32 °F ... 140 °F (0 °C ... +60 °C)			
Pressure Resistance	10 bar (incl. sensor connection cable)			
Ambient Conditions	Operating temperature: 32 °F ... 140 °F (0 °C ... +60 °C); Storage temperature: 23 °F ... 149 °F (-5 °C ... +65 °C)			
Electrical connections	2-wire shield cable with quick fastener to sensor			
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation			
Certifications	CE, cETL, ETL			
Mechanical	Membrane head assembly, locking cap: POM Sensor body: V4A stainless steel 1.4571 Protection rating: IP 68			
Weight (without cable)	Approx. 1.46 lb (660 g)	Approx. 2.58 lb (1,170 g)	Approx. 1.46 lb (660 g)	
Warranty	2 years for defects in quality			

* SW: Sensor as sea water model (with plastic arming (POM))

Model	Description	Order No.
TriOxmatic® 700 IQ	Universal oxygen sensor for the measurement and regulation of oxygen input in wastewater treatment plants (please order cables separately)	201640
TriOxmatic® 700 IQ SW	Like TriOxmatic® 700 IQ, but as a sea water model	201641
TriOxmatic® 701 IQ	Like TriOxmatic® 700 IQ, but with faster response times	201644
TriOxmatic® 702 IQ	Like TriOxmatic® 700 IQ, but as a trace sensor (ppb area) suitable for pure or boiler feed water	201646

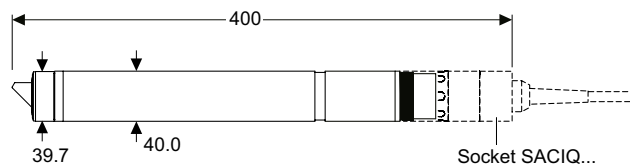
Digital optical IQ sensors for dissolved oxygen FDO®

Calibration-free, reliable, DIN compliant - the optical FDO® oxygen sensors for the IQ SENSOR NET to regulate biological cleaning steps

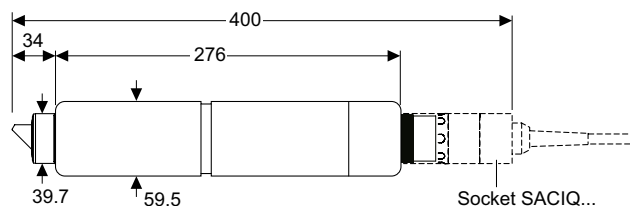
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FDO® 700 IQ, FDO® 701 IQ



FDO® 700 IQ SW, FDO® 701 IQ SW



Technical Data

Model	FDO® 700 IQ	FDO® 700 IQ SW*	FDO® 701 IQ	FDO® 701 IQ SW*
Measuring method	Optical			
Replacement caps	SC-FDO® 700 with a working life of 2 years with authorized use		SC-FDO® 701 with a working life of 6 months with authorized use	
Measuring range (25 °C)				
O ₂ concentration	0 ... 20.00 mg/l (0 ... 20.00 ppm)			
O ₂ saturation	0 ... 200.0 %			
Resolution				
O ₂ concentration	0.01 mg/l (0.01 ppm)			
O ₂ saturation	0.1 %			
Accuracy	< 1 mg/l (ppm): ±0.05 mg/l (ppm) > 1mg/l (ppm): ±0.1 mg/l (ppm)			
Response time at 25 °C	t ₉₀ : < 150 s t ₉₅ : < 200 s		t ₉₀ : < 60 s t ₉₅ : < 80 s	
Minimum flow rate	No flow required			
SensCheck	Monitoring of membrane function			
Temp. measurement	Integrated NTC, 23 °F ... 122 °F (-5 °C ... +50 °C) ± 0.5 °C			
Temp. compensation	23 °F ... 122 °F (-5 °C ... +50 °C)			
Pressure Resistance	10 bar (incl. sensor connection cable)			
Ambient Conditions	23 °F ... 122 °F (-5 °C ... +50 °C) -13 °F ... 122 °F (-25 °C ... +50 °C)		23 °F ... 104 °F (-5 °C ... +40 °C) -13 °F ... 104 °F (-25 °C ... +40 °C)	
Electrical connections	2-wire shield cable with quick fastener to sensor			
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation			
Certifications	CE, cETL, ETL			
Mechanical	Sensor cap, fixation: POM, PVC, silicone, PMMA sensor body: VA stainless steel 1.4571 protection type IP 68			
Weight (without cable)	1.98 lb (900 g)	3.31 lb (1.5 kg)	1.98 lb (900 g)	3.31 lb (1.5 kg)
Warranty	2 years for defects in quality			

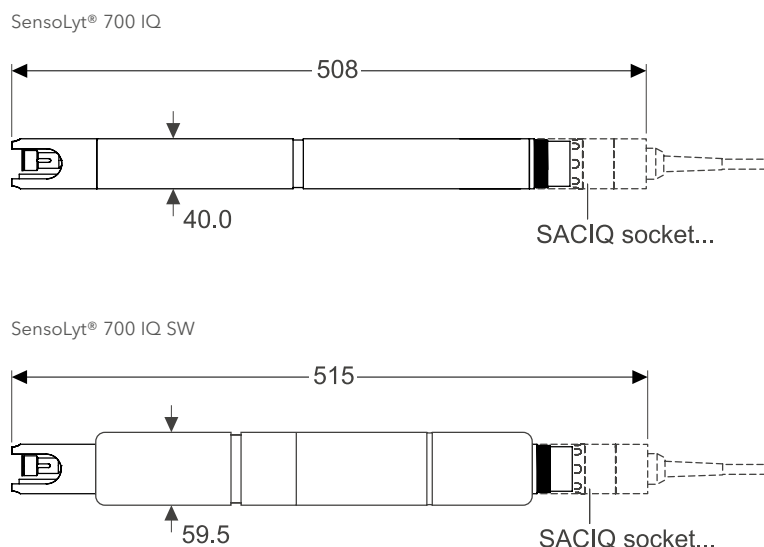
* SW: Sensor as sea water model (with plastic arming (POM))

Model	Description	Order No.
FDO® 700 IQ	Optical O ₂ sensor for connection to the IQ SENSOR NET. (Please order cable separately)	201650
FDO® 701 IQ	like the FDO® 700 IQ, but with a faster response time	201660
FDO® 700 IQ SW	like the FDO® 700 IQ, but as sea water model with plastic arming (POM)	201652
FDO® 701 IQ SW	like the FDO® 700 IQ SW, but with a faster response time	201653
SC-FDO 700	Universal sensor cap for FDO® 700 IQ/700 IQ SW	201654
SC-FDO 701	Fast response time sensor cap for FDO® IQ 701/IQ 701 SW	201655

Digital IQ pH/ORP armatures SensoLyt®

Digital pH/ORP armature with integrated preamplifier and temperature sensor as well as lightning protection to be connected to IQ SENSOR NET

We would like to inform you about the application range on our website



Technical Data

Model	SensoLyt® 700 IQ	SensoLyt® 700 IQ SW*
Measuring method	Potentiometric	
Measuring range	0.00 ... 14.00 pH (depending on the electrode) ±2000mV (depending on the electrode)	
Resolution	0.01 pH 1mV	
Accuracy	Depends on calibration ±0.2 pH; ±20 mV	
Integrated Preamplifier	Yes	
Sensor check funktion	Yes	
Temp. measurement	Integrated NTC, 23 ... 140 °F (-5 ... +60 °C)	
Temp. compensation	32 ... 140 °F (0 ... +60 °C)	
Pressure Resistance	10 bar	
Ambient Conditions	Operating temperature: 32 ... 140 °F (0 ... +60 °C)	
Electrical connections	2-wire shield cable with quick fastener to sensor	
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation	
Certifications	CE, cETL, ETL	
Mechanical	Sensor body: V4A stainless steel 1.4571 Protection cap: PVC Sensor holder: POM Protection rating: IP 68	
Weight (without cable)	Approx 2.14 lb (970 g)	Approx. 3.97 lb (1.800 g)
Warranty	2 years for defects in quality	

* SW: Sensor as sea water model (with plastic arming (POM))

Model	Description	Order No.
SensoLyt® 700 IQ	Digital pH/ORP fitting for SensoLyt® electrode, with integrated preamplifier and temperature sensor (please order cable separately)	109170
SensoLyt® 700 IQ SW	Like the SensoLyt® 700 IQ, but as a sea water model	109171
SensoLyt® 700 IQ/SET	SensoLyt® 700 IQ including SensoLyt® SEA pH electrode and 7 m connecting cable	109173
SensoLyt® 700 IQ/SET1	SensoLyt® 700 IQ including SensoLyt® PtA ORP electrode and 7 m connecting cable	109174



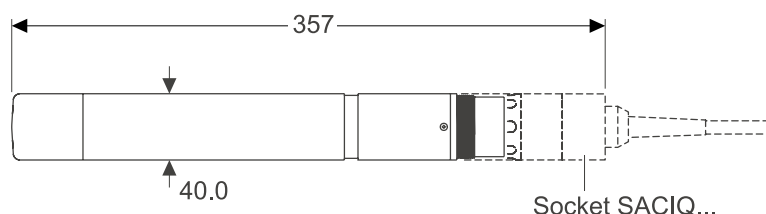
Digital IQ conductivity measuring cells

TetraCon®

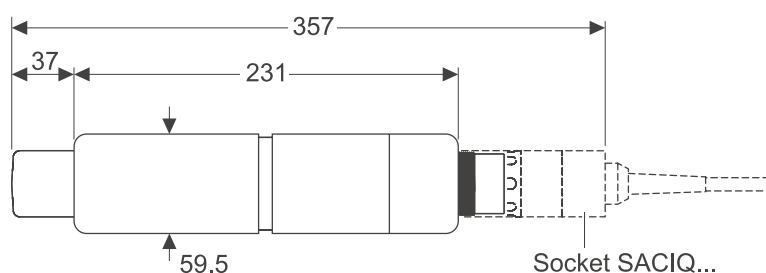
Digital 4 electrode conductivity measuring cell with flow-free operation, especially with high conductivity

We would like to inform you about the application range on our website

TetraCon® 700 IQ



TetraCon® 700 IQ SW



Technical Data

Model	TetraCon® 700 IQ		TetraCon® 700 IQ SW*
Measuring method	Conductometric (4-electrode cell)		
Measuring range	Cond: 10 µS/cm ... 500 mS/cm SAL: 0 ... 70 TDS: 0 ... 200 g/l		
Accuracy	± 2 % of measured value ± 1 Digit (in standard solution, 25 °C, with non-linear temp. comp. (acc. DIN 38404))		
Cell Constants	K = 0.917 cm ⁻¹ , ± 1.5% (in free solution) K = 0.933 cm ⁻¹ , TetraCon® 700 IQ with EBST 700-DU/N flow assembly		K = 0.917 cm ⁻¹ , ± 1.5% (in free solution)
Resolution	Depending on measuring range		
Temp. measurement	-5 ... +60 °C (23 ... 140 °F); NTC		
Temp. compensation	linear: 32 ... 140 °F (0 ... +60 °C) nonlinear: +5 °C ... 35 °C (acc. to DIN 38404) nonlinear: +35 °C ... +60 °C (acc. to WTW procedure)		
Pressure Resistance	10 bar		
Ambient Conditions	-5 ... +60 °C (23 ... 140 °F)		
Electrical connections	2-wire shield cable with quick fastener to sensor		
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation		
Certifications	CE, cETL, ETL		
Mechanical	Sensor head: PVC Sensor body: V4A stainless steel 1.4571 Protection rating IP 68		
Weight (without cable)	Approx. 1.46 lb (660 g)		Approx. 2.58 lb (1,170 g)
Warranty	2 years for defects in quality		

* SW: Sensor as sea water model (with plastic arming (POM))

Model	Description	Order No.
TetraCon® 700 IQ	Digital 4 electrode conductivity measuring cell for highly contaminated wastewater (please order cable separately)	302500
TetraCon® 700 IQ SW	Like TetraCon® 700 IQ, but as a sea water model	302501

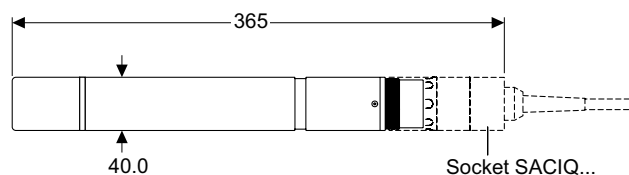
Digital turbidity sensors VisoTurb®



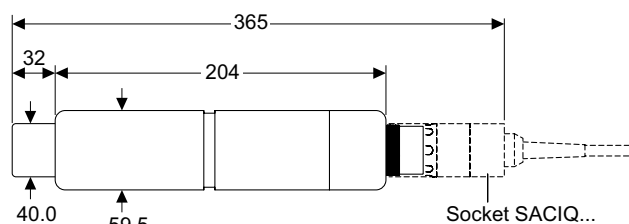
Optical turbidity sensors with nephelometric principle according to EN ISO 7027 for the in-situ use in water/ wastewater incl. ultrasonic cleaning system

We would like to inform you about the application range on our website

VisoTurb® 700 IQ



VisoTurb® 700 IQ SW



Technical Data

Model	VisoTurb® 700 IQ	VisoTurb® 700 IQ SW*
Measuring method	Nephelometric principle in compliance with EN ISO 7027	
Measuring range	FNU; NTU; TEF 0 ... 4000 FNU mg/l SiO₂; ppm SiO₂ 0.1 ... 4000 mg/l SiO ₂ g/l TS 0.0001 ... 400 g/l TS	
Resolution	FNU; NTU; TEF Automatic according to measuring range 0.001 ... 1 FNU mg/l SiO₂; ppm SiO₂ 0.001 mg/l ... 0.01 g/l g/l TS 0.001 mg/l ... 1 g/l	
Accuracy	<i>Depends on application</i> Process variation coefficient according to DIN 38402 part 51 <1 % (in the range up to 2000 FNU) Repeatability according to DIN ISO 5725 or DIN 1319 < 0.015 % or ≥ 0.006 FNU	
Calibration	FNU; NTU; TEF Factory calibration with formazine mg/l SiO₂; ppm SiO₂ Factory calibration with SiO ₂ g/l TS Calibration by user, (TSS regulations in compliance with DIN 38414)	
Cleaning System	Ultrasonic cleaning system	
SensCheck	Contamination detection of optical window; failure of cleaning system	
Pressure Resistance	10 bar (incl. sensor connection cable)	Maximum 2 bar
Ambient Conditions	Operating temperature: 32 ... 140 °F (0 ... 60 °C); ultrasonic cleaning system: 32 ... 104 °F (0 ... 40 °C) (overheating protection); Storage temperature: 23 ... 149 °F (-5 ... +65 °C)	
Electrical connections	2-wire shield cable with quick fastener to sensor	
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation	
Certifications	CE	CE
Mechanical	Measuring window: Sapphire; Sensor body: V4A stainless steel 1.4571; Protection rating: IP 68	Measuring window: Sapphire; Sensor body: Titanium, POM; Protection rating: IP 68
Weight (without cable)	Approx. 2.18 lb (900 g)	3.13 lb (1420 g)
Warranty	2 years for defects in quality	

* SW: Sensor as sea water model (with plastic arming (POM))

Model	Description	Order No.
VisoTurb® 700 IQ	Digital turbidity sensor with integrated ultrasonic cleaning (please order cable separately)	600010
VisoTurb® 700 IQ SW	Like VisoTurb® 700 IQ, but as a sea water model	600011

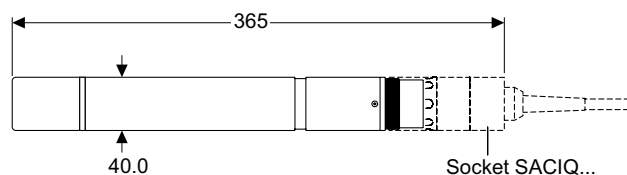
Digital suspended solids sensors ViSolid®



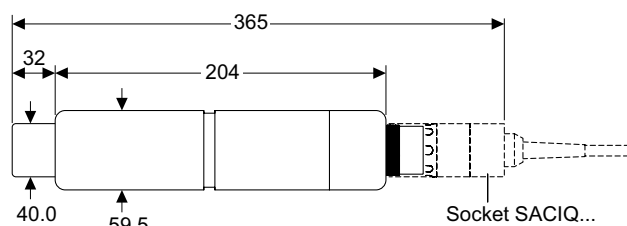
Optical sensors for the in-situ use to measure suspended solids via scattered light and direct back-scattering with ultrasonic cleaning system

We would like to inform you about the application range on our website

ViSolid® 700 IQ



ViSolid® 700 IQ SW



Technical Data

Model	ViSolid® 700 IQ		ViSolid® 700 IQ SW*
Measuring method	Procedure for measuring scattered light		
Measuring range	<div><div>g/l SiO₂</div><div>% SiO₂</div><div>g/l TSS</div><div>% TSS</div></div> <div><div>0 ... 300 g/l SiO₂</div><div>0 ... 30% SiO₂</div><div>0 ... 1000 g/l TSS</div><div>0 ... 100% TSS</div></div>		
Resolution	<div><div>g/l SiO₂</div><div>% SiO₂</div><div>g/l TSS</div><div>% TSS</div></div> <div><div>Automatic according to measuring range 0.1 mg/l ... 1 g/l</div><div>Automatic according to measuring range 0.001 % ... 0.01 %</div><div>Automatic according to measuring range 0.1 mg/l ... 1 g/l</div><div>Automatic according to measuring range 0.001 % ... 0.1 %</div></div>		
Accuracy	<div><div>Matrix type I</div><div>Matrix type II</div></div> <div><div>Depends on application and/or user calibration</div><div>Process variation coefficient according to DIN 38402 part 51 <2 %</div><div>Process variation coefficient according to DIN 38402 part 51 <4 %</div></div>		
Calibration	Typical sludge characteristics stored: matrix type 1, matrix type 2 Calibration by user: adjustment via correction factor, 1-point or multi-point calibration possible		
Cleaning System	Ultrasound cleaning system		
SensCheck	Contamination detection of optical window; failure of cleaning system		
Pressure Resistance	10 bar (incl. sensor connection cable)		
Ambient Conditions	Operating temperature: 32 ... 140 °F (0 ... 60 °C); ultrasonic cleaning system: 32 ... 140 °F (0 ... 60 °C) (overheating protection); Storage temperature: 23 ... 149 °F (-5 ... +65 °C)		
Electrical connections	2-wire shield cable with quick fastener to sensor		
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation		
Certifications	CE		
Mechanical	Measuring window: Sapphire; Sensor body: V4A stainless steel 1.4571; Sensor head: V4A stainless steel 1.4571; Protection rating: IP 68	Measuring window: Sapphire; Sensor-body: Titanium, POM Sensor head: Titanium; Protection rating: IP 68	
Weight (without cable)	Approx. 2.18 lb (900 g)		Approx. 3.13 lb (1420 g)
Warranty	2 years for defects in quality		

* SW: Sensor as sea water model (with plastic arming (POM))

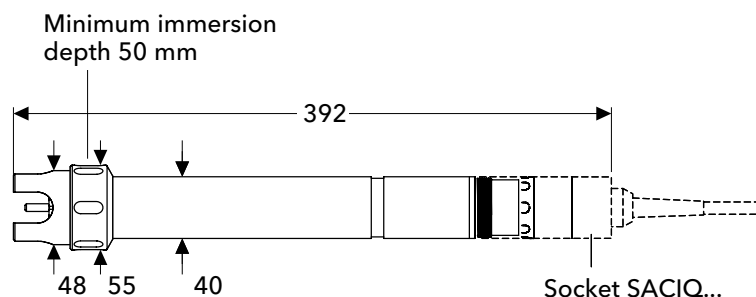
Model	Description	Order No.
ViSolid® 700 IQ	Digital suspended solids sensor with integrated ultrasonic cleaning (please order cable separately)	600012
ViSolid® 700 IQ SW	Like ViSolid® 700 IQ, but as a sea water model	600013



Digital ISE combination sensor VARiON® for ammonium and nitrate

Ion selective measurement of ammonium and nitrate free of reagents with automatic compensation of potassium/chloride with the VARiON® Plus 700 IQ

We would like to inform you about the application range on our website



Technical Data

Model	VARiON®Plus	
	Ammonium Measurement	Nitrate Measurement
Measuring method	Potentiometric	
Maximum Configuration	Common reference electrode, two measuring electrodes, one compensation electrode	
Integrable Electrodes:		
Reference Electrode	VARiON®Plus Ref	
Measuring Electrode	VARiON®Plus NH ₄	VARiON®Plus NO ₃
Compensation Electrode	VARiON®Plus K	VARiON®Plus Cl
Measuring range/Resolution	NH ₄ -N: 1 ... 2,000 mg/l / 1 mg/l; 0.1 ... 100 mg/l / 0,1 mg/l NH ₄ ⁺ : 1 ... 2,580 mg/l / 1 mg/l; 0.1 ... 129.0 mg/l / 0,1 mg/l	NO ₃ -N: 1 ... 1,000 mg/l / 1 mg/l; 0.1 ... 100 mg/l / 0,1 mg/l NO ₃ ⁻ : 5 ... 4500 mg/l / 1 mg/l; 0.5 ... 450.0 mg/l / 0,1 mg/l
Compensation Ranges	K ⁺ : 0.1 ... 1,000 mg/l / 0,1 mg/l	Cl ⁻ : 0.1 ... 1,000 mg/l / 0,1 mg/l
Measuring Accuracy in laboratory standard solutions	± 5 % of measured value ± 0.2 mg/l in standard solutions	
Calibration Procedures	Matrix adjustment against any reference value, 2-point-calibration possible with multiple standard solution	
Working Life (typically)	Reference electrode: 18 months, measuring and compensation electrode: 18 months (in typical application - municipal sewage plants)	
Temperature Measurement and Compensation	Integrated NTC thermistor, Range 32 °F ... 104 °F (0 °C ... +40 °C), Accuracy ±0.5 K, Resolution 0.1 K, t ₉₅ < 20 s	
pH range	pH 4 ... pH 8.5	pH 4 ... pH 11
Pressure Resistance	Maximum 0.2 bar (incl. SACIQ sensor connection cable, with installed electrodes)	
Ambient Conditions	Operating temperature: 32 °F ... 104 °F (0 °C ... +40 °C), storing temperature: 32 °F ... 104 °F (0 °C ... +40 °C)	
Electrical connections	2-wire shield cable with quick fastener to sensor	
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation	
Certifications	CE	
Mechanical	Sensor body: V4A stainless steel 1.4571 Temperature sensor: V4A stainless steel 1.4571 Electrode connector: POM	Protective cup: POM Protection rating: IP 68 (0.2 bar, with installed electrodes)
Weight	Approx. 1.48 lb (670 g, without electrode, without sensor connection cable)	
Warranty	VARiON®Plus 700 IQ: 2 years; Electrodes: 1 year for defects of quality	

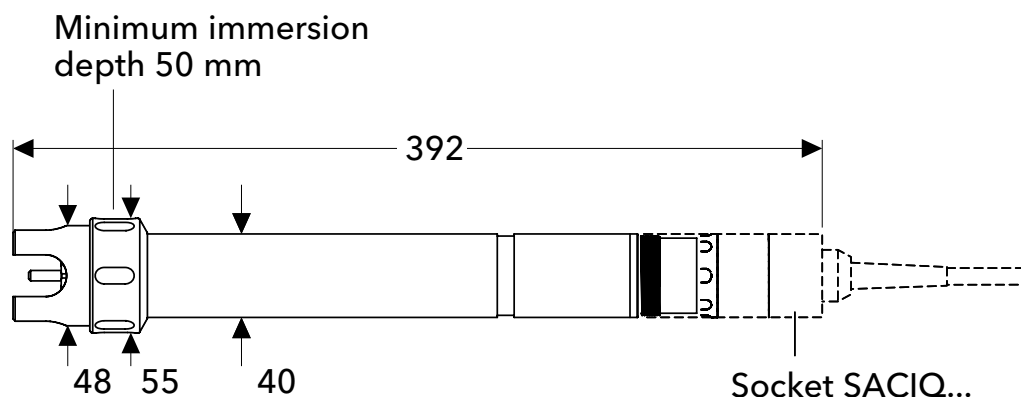
Model	Description	Order No.
VARiON®Plus 700 IQ	Digital sensor for the ion selective measurement of ammonium and nitrate, without electrodes (Please order the sensor cable SACIQ separately)	107040
VARiON®Plus A comp SET NH₄	VARiON®Plus 700 IQ, reference electrode VARiON® Ref, ammonium measuring electrode VARiON®Plus NH ₄ and compensation electrode VARiON®Plus K (potassium) (Please order the sensor cable SACIQ separately)	107060
VARiON®Plus N comp SET NO₃	VARiON®Plus 700 IQ, VARiON® Ref, VARiON®Plus NO ₃ and VARiON®Plus Cl (chloride) (Please order the sensor cable SACIQ separately)	107062
VARiON®Plus AN/A comp SET NH₄ & NO₃	VARiON®Plus 700 IQ, VARiON®Ref, VARiON®Plus NH ₄ and VARiON®Plus NO ₃ , VARiON®Plus K (potassium) (Please order the sensor cable SACIQ separately)	107066
VARiON®Plus AN/N comp SET NH₄ & NO₃	VARiON®Plus 700 IQ, VARiON®Ref, VARiON®Plus NH ₄ and VARiON®Plus NO ₃ , VARiON®Plus Cl (chloride) (Please order the sensor cable SACIQ separately)	107068



Digital ISE sensor AmmoLyt® for ammonium

Ammonium measurement directly in the medium without sample preparation and sample transfer. Measurement of centrate and other process waters up to 2,000 mg/l NH₄-N

We would like to inform you about the application range on our website



Technical Data

Model	AmmoLyt®Plus	
Measuring method	Potentiometric	
Appropriate Electrode	Reference electrode VARiON® Ref, Measuring electrode VARiON®Plus NO ₃ , Compensation electrode VARiON®Plus Cl	
Measuring range/ Resolution	NH ₄ -N: 1 ... 2,000 mg/l / 1 mg/l; 0.1 ... 100 mg/l / 0.1 mg/l	
Compensation Range	NH ₄ +: 1 ... 2,580 mg/l / 1 mg/l; 0.1 ... 129.0 mg/l / 0.1 mg/l	
	K+: 0.1 ... 1,000 mg/l / 0.1 mg/l	
Measuring Accuracy in laboratory standard solutions	± 5 % of measured value ± 0.2 mg/l in standard solutions	
Calibration Procedures	Matrix adjustment against any reference value, 2-point-calibration possible with multiple standard solution	
Working Life (typically)	Reference electrode: 18 months, measuring and compensation electrode: 18 months (in typical application - municipal sewage plants)	
Temperature Measurement and Compensation	Integrated NTC thermistor, Range 32 °F ... 104 °F (0 °C ... +40 °C), Accuracy ±0.5 K, Resolution 0.1 K, t ₉₅ < 20 s	
pH range	pH 4 ... pH 8.5	
Pressure Resistance	Maximum 0.2 bar (incl. SACIQ sensor connection cable, with installed electrodes)	
Ambient Conditions	Operating temperature: 32 °F ... 104 °F (0 °C ... +40 °C), storing temperature: 32 °F ... 104 °F (0 °C ... +40 °C)	
Electrical connections	2-wire shield cable with quick fastener to sensor	
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation	
Certifications	CE	
Mechanical	Sensor body: V4A stainless steel 1.4571 Temperature sensor: V4A stainless steel 1.4571 Electrode connector: POM	Protective cup: POM Protection rating: IP 68 (0.2 bar, with installed electrodes)
Weight	Approx. 1.48 lb (670 g, without electrode, without sensor connection cable)	
Warranty	AmmoLyt®Plus 700 IQ: 2 years Electrodes: 1 year for defects of quality	

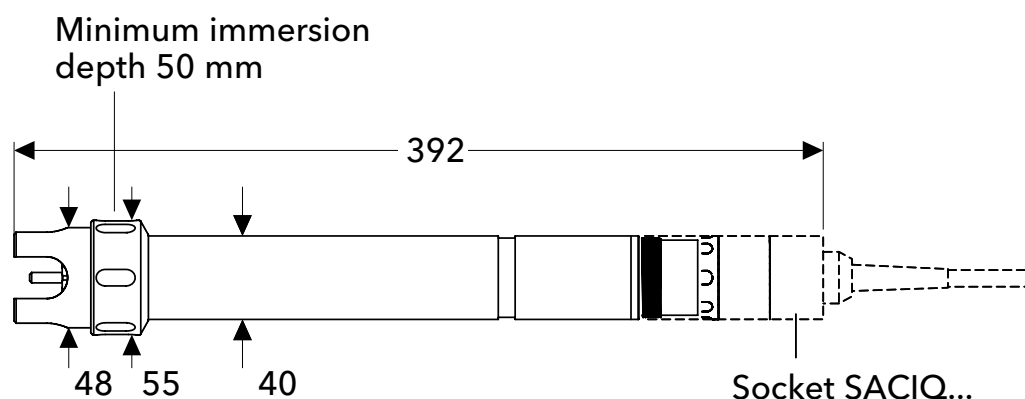
Model	Description	Order No.
AmmoLyt® Plus 700 IQ	Digital sensor for ion selective measurement of ammonium (Please order the sensor cable SACIQ separately)	107070
AmmoLyt® Plus SET	AmmoLyt®Plus 700 IQ, VARiON® Ref and VARiON®Plus NH ₄ (Please order the sensor cable SACIQ separately)	107071
AmmoLyt® Plus SET/Comp	AmmoLyt®Plus 700 IQ, VARiON® Ref, VARiON®Plus NH ₄ and VARiON®Plus K (Please order the sensor cable SACIQ separately)	107072



Digital ISE sensor NitraLyt® for nitrate

Nitrogen elimination – transparent, process optimized, economical. Nitrate measurement directly in the medium – optimized for regulation purposes

We would like to inform you about the application range on our website



Technical Data

Model	NitraLyt®Plus	
Measuring method	Potentiometric	
Appropriate Electrode	Reference electrode VARiON® Ref, Measuring electrode VARiON®Plus NO ₃ , Compensation electrode VARiON®Plus Cl	
Measuring range/Resolution	NO ₃ -N: 1 ... 1000 mg/l / 1 mg/l; 0.1 ... 100.0 mg/l / 0.1 mg/l	
Compensation Range	NO ₃ : 5 ... 4500 mg/l / 5 mg/l; 0.5 ... 450.0 mg/l / 0.5 mg/l	
	Cl: 0.1 ... 1,000 mg/l / 0.1 mg/l	
Measuring Accuracy in laboratory standard solutions	± 5 % of measured value ± 0.2 mg/l in standard solutions	
Calibration Procedures	Matrix adjustment against any reference value, 2-point-calibration possible with multiple standard solution	
Working Life (typically)	Reference electrode: 18 months, measuring and compensation electrode: 18 months (in typical application - municipal sewage plants)	
Temperature Measurement and Compensation	Integrated NTC thermistor, Range 32 °F ... 104 °F (0 °C ... +40 °C), Accuracy ±0.5 K, Resolution 0.1 K, t ₉₅ < 20 s	
pH range	pH 4 ... pH 11	
Pressure Resistance	Maximum 0.2 bar (incl. SACIQ sensor connection cable, with installed electrodes)	
Ambient Conditions	Operating temperature: 32 °F ... 104 °F (0 °C ... +40 °C), storing temperature: 32 °F ... 104 °F (0 °C ... +40 °C)	
Electrical connections	2-wire shield cable with quick fastener to sensor	
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation	
Certifications	CE	
Mechanical	Sensor body: V4A stainless steel 1.4571 Temperature sensor: V4A stainless steel 1.4571 Electrode connector: POM	Protective cup: POM Protection rating: IP 68 (0.2 bar, with installed electrodes)
Weight	Approx. 1.48 lb (670 g, without electrode, without sensor connection cable)	
Warranty	NitraLyt®Plus 700 IQ: 2 years Electrodes: 1 year for defects of quality	

Model	Description	Order No.
NitraLyt® Plus 700 IQ	Digital sensor for the ion selective measurement of nitrate (Please order the sensor cable SACIQ separately)	107080
NitraLyt® Plus SET	NitraLyt®Plus 700 IQ, VARiON® Ref and VARiON®Plus NO ₃ (Please order the sensor cable SACIQ separately)	107081
NitraLyt® Plus SET/Comp	NitraLyt®Plus 700 IQ, VARiON® Ref, VARiON®Plus NO ₃ and VARiON®Plus CL (Please order the sensor cable SACIQ separately)	107082



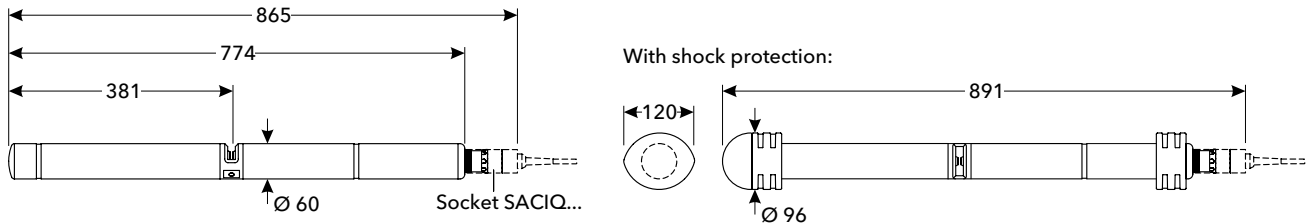
Digital optical UV VIS spectral probe NitraVis® for nitrate and suspended solids



Sensor with integrated ultrasonic cleaning for the reagent-free measurement of nitrate and suspended solids (optional) – optimized for municipal wastewater treatment systems

We would like to inform you about the application range on our website

NitraVis® 701 IQ (TS), NitraVis® 705 IQ (TS)



Model	NitraVis® 701 IQ	NitraVis® 705 IQ	NitraVis® 701 IQ TS	NitraVis® 705 IQ TS
Measuring method	Spectral Measurement in the UV-VIS Range (200 – 720 nm)			
Measuring gap (optical layer thickness)	1 mm	5 mm	1 mm	5 mm
Application (optimized for)	Municipal wastewater:	Municipal wastewater:	Municipal wastewater:	Municipal wastewater:
Measuring range and Resolution	Inlet:		Inlet:	
	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l
	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l
	TSS		TSS	0.00 ... 15.00 g/l 0.01 g/l
	Aeration:		Aeration:	
	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l
	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l
	TSS		TSS	0.00 ... 20.00 g/l 0.01 g/l
	Effluent:		Effluent:	
	NO ₃	0.0 ... 750.0 mg/l 0.1 mg/l	NO ₃	0.0 ... 750.0 mg/l 0.1 mg/l
	NO ₃ -N	0.0 ... 150.0 mg/l 0.1 mg/l	NO ₃ -N	0.0 ... 150.0 mg/l 0.1 mg/l
	TSS		TSS	0 ... 4,500 mg/l 1 mg/l
Displayable Parameters	1	1	2	2
Accuracy (standard application muni. WWTP)	NO ₃ -N: ± 3 % of measured value ± 0.5 mg/l TSS: ± 5 % of measured value ± 50 mg/l			
Flow rate	≤ 3 m/s			
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)			
Electrical connections	2-wire shield cable with quick fastener to sensor			
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation			
Certifications	CE, UKCA			
Mechanical	Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68			
Weight (without cable)	Approx. 8.82 lb (4 kg)			
Warranty	2 years for defects in quality			

Model	Description	Order No.
NitraVis® 701 IQ	Spectral nitrate probe for the measurement in inlet/aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481044
NitraVis® 705 IQ	Like NitraVis® 701 IQ, but for measuring in the outlet	481046
NitraVis® 701 IQ TS	Spectral nitrate and suspended solids probe for measuring in the inlet/aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481045
NitraVis® 705 IQ TS	Like NitraVis® 701 IQ TS, but for measuring in the outlet	481047





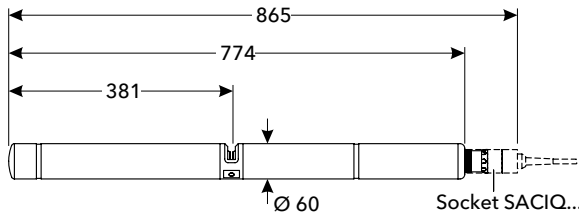
Digital optical sensors NiCaVis® for nitrate, carbon and suspended solids



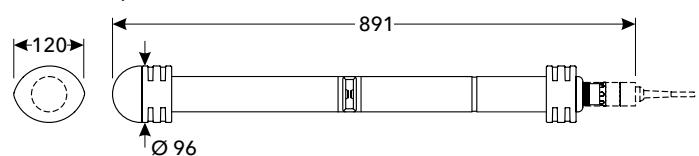
Sensor with integrated ultrasonic cleaning for the reagent-free measurement of nitrate, carbon and suspended solids (optional) in the wastewater treatment system drain

We would like to inform you about the application range on our website

NiCaVis® 705 IQ, NiCaVis® 705 IQ TS



With shock protection:



Model	NiCaVis® 705 IQ	NiCaVis® 705 IQ TS
Measuring method	Spectral Measurement in the UV-VIS Range (200 – 720 nm)	
Measuring gap (optical layer thickness)	5 mm	
Application (optimized for)	Municipal wastewater:	Municipal wastewater:
Measuring range and Resolution	Effluent: NO ₃ 0.0 ... 250.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 50.00 mg/l 0.01 mg/l COD 0.0 ... 800.0 mg/l 0.1 mg/l TOC 0.0 ... 500.0 mg/l 0.1 mg/l DOC 0.0 ... 500.0 mg/l 0.1 mg/l BOD 0.0 ... 500.0 mg/l 0.1 mg/l SAC ₂₅₄ total 0.0 ... 600.0 1/m 0.1 1/m SAC ₂₅₄ dissolv 0.0 ... 600.0 1/m 0.1 1/m UVT ₂₅₄ total* 0.0 ... 100.0 % 0.1 % UVT ₂₅₄ dissolv* 0.0 ... 100.0 % 0.1 % TSS	Effluent: 0.0 ... 250.0 mg/l 0.1 mg/l 0.00 ... 50.00 mg/l 0.01 mg/l 0.0 ... 800.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 600.0 1/m 0.1 1/m 0.0 ... 600.0 1/m 0.1 1/m 0.0 ... 100.0 % 0.1 % 0.0 ... 100.0 % 0.1 % 0.0 ... 900.0 mg/l 0.1 mg/l
Displayable Parameters	Up to 5 at the same time	
Accuracy (standard application muni. WWTP)	NO ₃ -N: ± 3 % of measured value ± 0.5 mg/l Carbon parameters: ± 5 % of measured value ± 2.5 mg/l SAC: ± 0.5 % of measured value ± 0.4 SAK UVT: < 10 % UVT ± 1 % UVT of measured value; > 10 % UVT ± 0.1 % UVT of measured value TSS: ± 5 % of measured value ± 50 mg/l	
Flow rate	≤ 3 m/s	
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)	
Electrical connections	2-wire shield cable with quick fastener to sensor	
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation	
Certifications	CE, UKCA	
Mechanical	Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68	
Weight (without cable)	Approx. 8.82 lb (4 kg)	
Warranty	2 years for defects in quality	

* The UVT-254 value is standardized to 10 mm gap width.

Model	Description	Order No.
NiCaVis® 705 IQ	Spectral UV-VIS probe for measuring nitrate, COD _{tot} , COD _{diss} , TOC, BOD, DOC, SAC _{tot} , SAC _{diss} , and UVT ₂₅₄ in the drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481052
NiCaVis® 705 IQ TS	Like NiCaVis® 705 IQ, but with TS	481053



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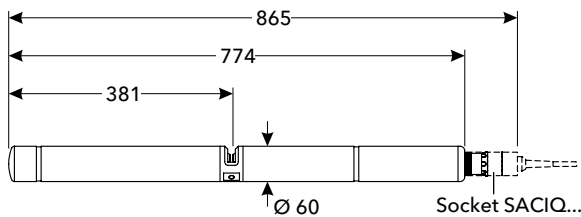
Digital optical UV spectral probe NitraVis® NI for nitrate and nitrite



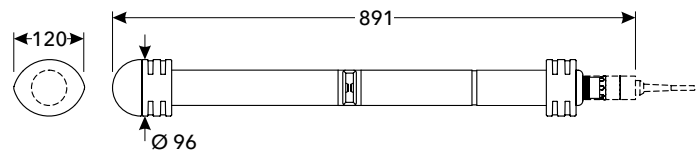
Sensor with maintenance-free ultrasonic cleaning for measurement of nitrate and nitrite directly in the process – optimized for municipal wastewater treatment systems

We would like to inform you about the application range on our website

NitraVis® 701 IQ NI, NitraVis® 705 IQ NI



With shock protection:



Model	NitraVis® 701 IQ NI	NitraVis® 705 IQ NI
Measuring method	Spectral Measurement in the UV Range (200–390 nm)	
Measuring gap (optical layer thickness)	1 mm	5 mm
Application (optimized for)	Municipal wastewater:	Municipal wastewater:
Measuring range and Resolution	Inlet & Aeration:	
	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l
	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l
	NO ₂	0.0 ... 120.0 mg/l 0.1 mg/l
	NO ₂ -N	0.00 ... 30.00 mg/l 0.01 mg/l
	Effluent:	
	NO ₃	0.0 ... 750.0 mg/l 0.1 mg/l
	NO ₃ -N	0.0 ... 150.0 mg/l 0.1 mg/l
	NO ₂	0.0 ... 300.0 mg/l 0.1 mg/l
	NO ₂ -N	0.00 ... 75.00 mg/l 0.01 mg/l
Displayable Parameters	Up to 2 at the same time	
Accuracy (standard application muni. WWTP)	NO ₃ -N, NO ₂ -N: ± 3 % of measured value ± 0.5 mg/l	
Flow rate	≤ 3 m/s	
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)	
Electrical connections	2-wire shield cable with quick fastener to sensor	
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation	
Certifications	CE, UKCA	
Mechanical	Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68	
Weight (without cable)	Approx. 8.82 lb (4 kg)	
Warranty	2 years for defects in quality	

Model	Description	Order No.
NitraVis® 701 IQ NI	Spectral nitrate and nitrite probe for measuring in the inlet/aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481056
NitraVis® 705 IQ NI	Like NitraVis® 705 IQ NI, but for measuring in the drain/outlet	481057





Digital optical UV spectral probe

NiCaVis® NI for nitrite, nitrate & carbon



UV probes with integrated ultrasonic cleaning for the reagent-free measurement of nitrate, nitrite and carbon parameters COD, DOC, TOC, BOD, SAC and UVT directly in the process

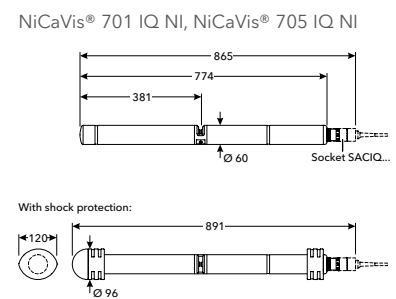
We would like to inform you about the application range on our website

Model	NiCaVis® 701 IQ NI		NiCaVis® 705 IQ NI
Measuring method	Spectral Measurement in the UV Range (200–390 nm)		
Measuring gap (optical layer thickness)	1 mm		5 mm
Application (optimized for)	Municipal wastewater:		Municipal wastewater:
Measuring range and Resolution	Inlet: NO ₃ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 60.00 mg/l 0.01 mg/l NO ₂ 0.0 ... 120.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 30.00 mg/l 0.01 mg/l COD _{total} 0 ... 20,000 mg/l 1 mg/l COD _{dissolv} 0 ... 12,500 mg/l 1 mg/l TOC 0 ... 20,000 mg/l 1 mg/l DOC 0 ... 12,500 mg/l 1 mg/l BOD 0 ... 8,000 mg/l 1 mg/l SAC _{254 total} 0 ... 5,000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %		
	Aeration: NO ₃ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 60.00 mg/l 0.01 mg/l NO ₂ 0.0 ... 120.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 30.00 mg/l 0.01 mg/l COD _{dissolv} 0 ... 12,500 mg/l 1 mg/l DOC 0 ... 12,500 mg/l 1 mg/l SAC _{254 total} 0 ... 5,000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %		
	Effluent: NO ₃ 0.0 ... 750.0 mg/l 0.1 mg/l NO ₃ -N 0.0 ... 150.0 mg/l 0.1 mg/l NO ₂ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 75.00 mg/l 0.01 mg/l COD _{total} 0 ... 4.000 mg/l 1 mg/l COD _{dissolv} 0 ... 4.000 mg/l 1 mg/l TOC 0 ... 2.500 mg/l 1 mg/l DOC 0 ... 2.500 mg/l 1 mg/l BOD 0 ... 2.500 mg/l 1 mg/l SAC _{254 total} 0 ... 3.000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %		
	Effluent: 0.0 ... 250.0 mg/l 0.1 mg/l 0.00 ... 50.00 mg/l 0.01 mg/l 0.0 ... 100.0 mg/l 0.1 mg/l 0.00 ... 25.00 mg/l 0.01 mg/l 0.0 ... 800.0 mg/l 1 mg/l 0.0 ... 800.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 600.0 1/m 1 1/m 0.0 ... 100.0 % 0.1 %		

Displayable Parameters	Up to 5 at the same time
Accuracy (standard application muni. WWTP)	NO ₃ -N, NO ₂ -N: ± 3 % of measured value ± 0.5 mg/l Carbon parameters: ± 5 % of measured value ± 2.5 mg/l SAC: ± 0.5 % of measured value ± 0.4 SAK UVT: < 10 % UVT ± 1 % UVT of measured value; > 10 % UVT ± 0.1 % UVT of measured value
Flow rate	≤ 3 m/s
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)
Electrical connections	2-wire shield cable with quick fastener to sensor
Electromagnetic Compatibility	EN 61326. Class B. FCC Class A Intended for indispensable operation
Certifications	CE, UKCA
Mechanical	Housing: Titan Grade 2. PEEK, Window: Sapphire glass Protection class: IP 68
Weight (without cable)	Approx. 8.82 lb (4 kg)
Warranty	2 years for defects in quality

* The UVT-254 value is standardized to 10 mm gap width.

Model	Description	Order No.
NiCaVis® 701 IQ NI	Spectral UV sensor for the measurement of nitrite, nitrate, COD _{tot} , COD _{diss.} , TOC, BOD, DOC, SAC _{tot.} , SAC _{diss.} , UVT ₂₅₄ in the inlet and in the aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481054
NiCaVis® 705 IQ NI	Like NiCaVis® 701 IQ NI, but for the measurement in the drain/outlet	481055



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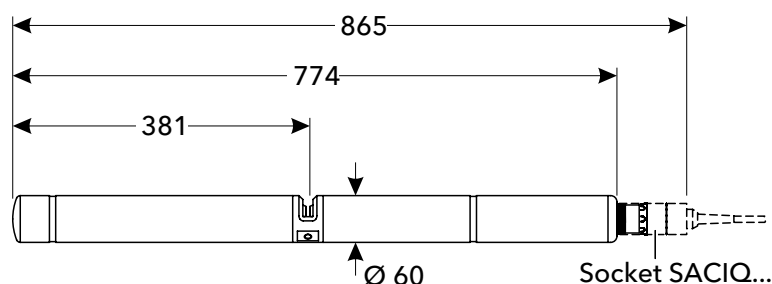
Optical nitrate sensor UV 70x IQ NO_x

Low-cost probe with integrated ultrasonic cleaning for the maintenance-free and reagent-free measurement of nitrate

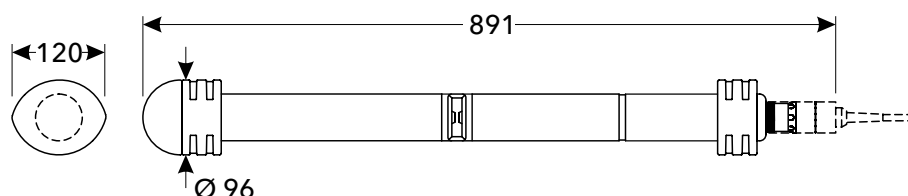
We would like to inform you about the application range on our website



UV 701 IQ NO_x, UV 705 IQ NO_x



With shock protection:



Model	UV 701 IQ NOx			UV 705 IQ NOx		
Measuring method	UV Single Wavelengths Absorption Measurement					
Measuring gap (optical layer thickness)	1 mm			5 mm		
Application (optimized for)	Municipal wastewater with a low proportion of industrial wastewater, waste water treatment plants, surface water					
Measuring range and Resolution	NO _x	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 100.0 mg/l	0.1 mg/l	
	NO _x -N	0.0 ... 100.0 mg/l	0.1 mg/l	0.0 ... 20.0 mg/l	0.1 mg/l	
Displayable Parameters	1					
Accuracy (standard application muni. WWTP)	NO _x -N: ± 3 % of measured value ± 0.5 mg/l					
Flow rate	≤ 3 m/s					
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)					
Electrical connections	2-wire shield cable with quick fastener to sensor					
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation					
Certifications	CE, UKCA					
Mechanical	Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68					
Weight (without cable)	Approx. 8.82 lb (4 kg)					
Warranty	2 years for defects in quality					

Model	Description	Order No.
UV 701 IQ NO _x	Optical nitrate (NO _x) sensor to measure higher concentration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481034
UV 705 IQ NO _x	Like UV 701 IQ NO _x , but to measure low concentrations	481035





Digital optical UV-VIS spectral sensors

CarboVis®



Spectral sensor with integrated ultrasonic cleaning for the chemical-free measurement of the organic load (COD/TOC/DOC/BOD/UVT/SAC) and suspended solids concentration (optional)

We would like to inform you about the application range on our website

Model	CarboVis® 701 IQ	CarboVis® 705 IQ	CarboVis® 701 IQ TS	CarboVis® 705 IQ TS
Measuring method	Spectral Measurement in the UV-VIS Range (200 - 720 nm)			
Measuring gap (opt. width)	1 mm	5 mm	1 mm	5 mm
Application (optimized for)	Municipal wastewater:	Municipal wastewater:	Municipal wastewater:	Municipal wastewater:
Measuring range and Resolution	Inlet: COD _{total} 0 ... 20,000 mg/l 1 mg/l COD _{dissolv} 0 ... 12,500 mg/l 1 mg/l TOC 0 ... 20,000 mg/l 1 mg/l DOC 0 ... 12,500 mg/l 1 mg/l BOD 0 ... 8,000 mg/l 1 mg/l SAC _{254 total} 0.0 ... 5,000 1/m 1 1/m SAC _{254 dissolv} 0.0 ... 3,000 1/m 1 1/m UVT _{254 total} * 0.0 ... 100.0 % 0.1 % UVT _{254 dissolv} * 0.0 ... 100.0 % 0.1 % TSS Aeration: COD _{dissolv} 0 ... 12,500 mg/l 1 mg/l DOC 0 ... 12,500 mg/l 1 mg/l SAC _{254 total} 0.0 ... 5,000 1/m 1 1/m SAC _{254 dissolv} 0.0 ... 3,000 1/m 1 1/m UVT _{254 total} * 0.0 ... 100.0 % 0.1 % UVT _{254 dissolv} * 0.0 ... 100.0 % 0.1 % TSS Effluent: COD _{total} 0 ... 4,000 mg/l 1 mg/l COD _{dissolv} 0 ... 4,000 mg/l 1 mg/l TOC 0 ... 2,500 mg/l 1 mg/l DOC 0 ... 2,500 mg/l 1 mg/l BOD 0 ... 2,500 mg/l 1 mg/l SAC _{254 total} 0.0 ... 3,000 1/m 1 1/m SAC _{254 dissolv} 0.0 ... 3,000 1/m 1 1/m UVT _{254 total} * 0.0 ... 100.0 % 0.1 % UVT _{254 dissolv} * 0.0 ... 100.0 % 0.1 % TSS		Inlet: 0 ... 20,000 mg/l 1 mg/l 0 ... 12,500 mg/l 1 mg/l 0 ... 20,000 mg/l 1 mg/l 0 ... 12,500 mg/l 1 mg/l 0 ... 8,000 mg/l 1 mg/l 0.0 ... 5,000 1/m 1 1/m 0.0 ... 3,000 1/m 1 1/m 0.0 ... 100.0 % 0.1 % 0.0 ... 100.0 % 0.1 % 0.00 ... 15.00 g/l 0.01 g/l Aeration: 0 ... 12,500 mg/l 1 mg/l 0 ... 12,500 mg/l 1 mg/l 0.0 ... 5,000 1/m 1 1/m 0.0 ... 3,000 1/m 1 1/m 0.0 ... 100.0 % 0.1 % 0.0 ... 100.0 % 0.1 % 0.00 ... 20.00 g/l 0.01 g/l Effluent: 0 ... 4,000 mg/l 1 mg/l 0 ... 4,000 mg/l 1 mg/l 0 ... 2,500 mg/l 1 mg/l 0 ... 2,500 mg/l 1 mg/l 0 ... 2,500 mg/l 1 mg/l 0.0 ... 3,000 1/m 1 1/m 0.0 ... 3,000 1/m 1 1/m 0.0 ... 100.0 % 0.1 % 0.0 ... 100.0 % 0.1 % 0 ... 4,500 mg/l 1 mg/l	
Displayable Parameters	Up to 5 at the same time			
Calibration	Factory calibrated, 1 or 2 point calibration; 24 point calibration optionally (please contact TechSupport)			
Accuracy (standard application muni. WWTP)	Carbon parameters: ± 5 % of measured value ± 2.5 mg/l; SAC: ± 0.5 % of measured value ± 0.4 SAK; UVT: < 10 % UVT ± 1 % UVT of measured value; > 10 % UVT ± 0.1 % UVT of measured value; TSS: ± 5 % of measured value ± 50 mg/l			
Flow rate	≤ 3 m/s			
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)			
Electrical connections	2-wire shield cable with quick fastener to sensor			
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation			
Certifications	CE, UKCA			
Mechanical	Housing: Titan Grade 2, PEEK; Window: Sapphire glass; Protection class: IP 68			
Weight (without cable)	Approx. 8.82 lb (4 kg)			
Warranty	2 years for defects in quality			

* The UVT-254 value is standardized to 10 mm gap width. ** Check Datasheet D2.27

Model	Description	Order No.
CarboVis® 701 IQ	Spectral UV-VIS probe to measure COD _{tot} , COD _{diss} , TOC, BOD, DOC, SAC _{tot} , SAC _{diss} and UVT ₂₅₄ in the inlet and the aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481048
CarboVis® 705 IQ	Like CarboVis® 701 IQ, but for the measurement in the drain	481050
CarboVis® 701 IQ TS	Like CarboVis® 701 IQ, but to measure suspended solids included	481049
CarboVis® 705 IQ TS	Like CarboVis® 701 IQ TS, but for the measurement in the drain	481051
CarboVis® 705 IQ TS Co	Spectral UV-VIS probe for measuring color, COD _{tot} , COD _{diss} , TOC, BOD, DOC, SAC _{tot} , SAC _{diss} , UVT ₂₅₄ and TSS in the drain/outlet w. integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings**	481066



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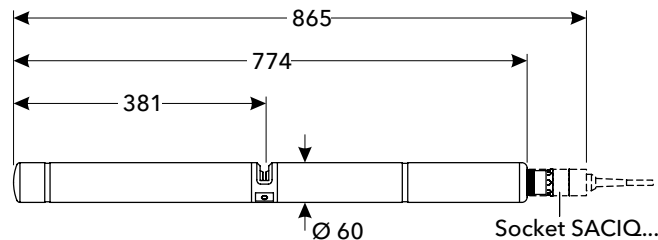
Optical SAC and UVT sensor UV 70x IQ SAC



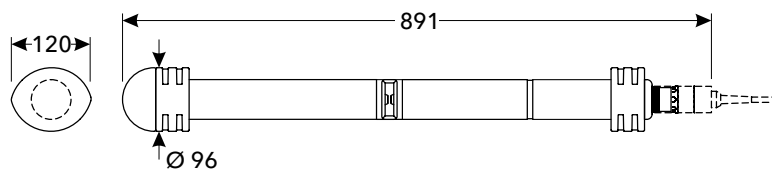
Low-cost probe (integrated ultrasonic cleaning, turbidity compensation) for the maintenance-free and reagent-free SAC measurement according to DIN 38404 C3

We would like to inform you about the application range on our website

UV 701 IQ SAC, UV 705 IQ SAC



With shock protection:



Model	UV 701 IQ SAC			UV 705 IQ SAC	
Measuring method	UV-Absorptionsmessung 254 nm (Kompensation 550 nm)				
Measuring gap (optical layer thickness)	1 mm			5 mm	
Application (optimized for)	Municipal wastewater with a low proportion of industrial wastewater, wastewater treatment plants, surface water				
Measuring range and Resolution	COD _{total}	0.0 ... 20,000 mg/l	1 mg/l	0.0 ... 800 mg/l	0.1 mg/l
	COD _{dissolv}	0.0 ... 12,500 mg/l	1 mg/l	0.0 ... 800 mg/l	0.1 mg/l
	TOC	0.0 ... 20,000 mg/l	1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	DOC	0.0 ... 12,500 mg/l	1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	BOD	0.0 ... 8,000 mg/l	1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	SAC _{254 total}	0.0 ... 3,000 1/m	1 1/m	0.0 ... 600.0 1/m	0.1 1/m
	SAC _{254 dissolv}	0.0 ... 3,000 1/m	1 1/m	0.0 ... 600.0 1/m	0.1 1/m
	UVT _{254 total} *	0.0 ... 100.0 %	0.1 %	0.0 ... 100.0 %	0.1 %
	UVT _{254 dissolv} *	0.0 ... 100.0 %	0.1 %	0.0 ... 100.0 %	0.1 %
Displayable Parameters	Up to 2 at the same time				
Accuracy (standard application muni. WWTP)	Carbon parameters: ± 5 % of measured value ± 2.5 mg/l SAC: ± 0.5 % of measured value ± 0.4 SAK UVT: < 10 % UVT ± 1 % UVT of measured value; > 10 % UVT ± 0.1 % UVT of measured value				
Flow rate	≤ 3 m/s				
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)				
Electrical connections	2-wire shield cable with quick fastener to sensor				
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation				
Certifications	CE, UKCA				
Mechanical	Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68				
Weight (without cable)	Approx. 8.82 lb (4 kg)				
Warranty	2 years for defects in quality				

* The UVT-254 value is standardized to 10 mm gap width.

Model	Description	Order No.
UV 701 IQ SAC	Optical SAC and UVT sensor (254 nm) to measure higher concentrations with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481036
UV 705 IQ SAC	Like UV 701 IQ SAC, but to measure lower concentrations	481038

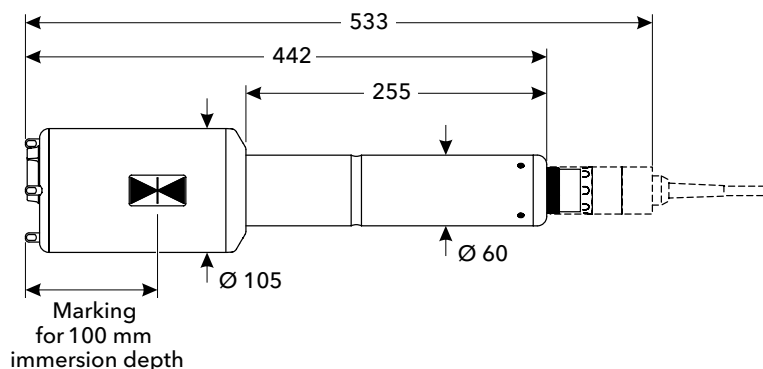




Digital IQ sensor IFL 700 IQ to determine the sludge level

Unique on the market: Sludge level measurement with maintenance-free cleaning system - the IFL 700 IQ with smart signal processing

We would like to inform you about the application range on our website



Technical Data

Model	IFL 700 IQ		IFL 701 IQ
Measuring method	Ultrasound echo measurement		
Measuring range and Resolution	0.4 m - 15 m	0.01 m	
Accuracy	0.1 m		
Immersion depth	Min. 5 cm; max. 3 m		
Pressure Resistance	0.3 bar The sensor with connected SACIQ cable complies with the requirements of article 3(3), 97/23/EU guideline		
Ambient Conditions	Medium: 0 °... +50 °C, Storage and transport: -5° ... +50°C		
Electrical connections	2-wire shield cable with quick fastener to sensor		
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation		
Certifications	CE, cETL, ETL		
Equipment safety, Standards	EN 61010-1; UL 61010-1; CAN/CSA C22.2#61010-1		
Mechanical	Shaft and baseplate: V4A stainless steel 1.4571 Plug head and transition unit: POM Ultrasound unit: PVC-C Protection rating: IP68 Cleaning system: Grade 2 Titanium (shaft), Grivory	Shaft and baseplate: V4A stainless steel 1.4571 Plug head and transition unit: POM Ultrasound unit: PVC-C Protection rating: IP68	
Weight (without cable)	Approx. 3.6 kg (7 lb)		
Warranty	2 years for defects in quality		

Model	Description	Order No.
IFL 700 IQ	Digital ultrasonic sensor with automatic cleaning to measure the sludge level	481200
IFL 701 IQ	Digital ultrasonic sensor to measure the sludge level	481201

Ammonium Analyzer Alyza IQ

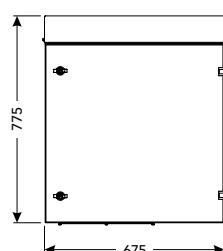


To monitor the outlet of a wastewater treatment plant and for river monitoring with the IQ SENSOR NET (Systems 2020 and 282/284)

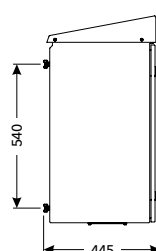
We would like to inform you about the application range on our website



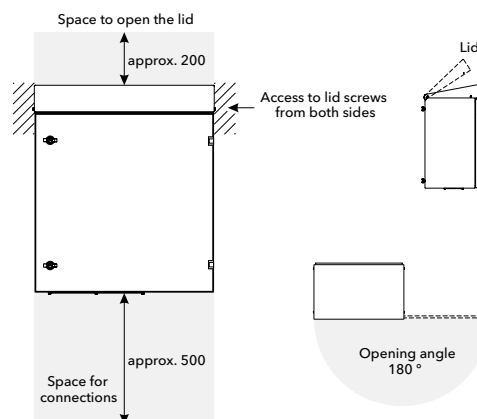
Front view:



Lateral view:



Required space



Technical Data

Model	Alyza IQ NH ₄ -111	Alyza IQ NH ₄ -112
Measuring method	Berthelot method (Indophenol method)	
Measuring range	MR 1: 0.02 ... 5.00 mg/l NH ₄ -N Displayed: 0.00 ... 5.00 mg/l NH ₄ -N	
Resolution	0.01 mg/l NH ₄ -N	
Accuracy	±2 % ±0.02 mg/l	
Measuring range	MR 2: 0.10 ... 20.00 mg/l NH ₄ -N Displayed: 0.00 ... 20.00 mg/l NH ₄ -N	
Resolution	0.01 mg/l NH ₄ -N	
Accuracy	±3 % ±0.10 mg/l	
Sample streams/channels	1 channel	2 channel
pH range	5 ... 9	
Sample temperature	+39 ... +113 °F (+4 ... +45 °C)	
Filtration unit	Filter/PC, FM-Case/PC (please order separately)	
Cleaning	Automatic cleaning with cleaning solution	
Calibration	Automatic 1- and 2-point calibration	
Ambient conditions	Operational temperature: -4 ... +104 °F (-20 ... +40 °C); Storage temperature: -4 ... +122 °F (-20 ... +50 °C)	
Electrical connection	120 VAC / 240 VAC, 50/60 Hz	
Mechanics	Housing: powder-coated aluminum, UV resistant Overflow vessel: PMMA	
Weight	Approx. 81.6 lb (37 kg) (without liquids)	
Certifications	cETLus, CE	
Warranty	2 years	

Subject to technical modifications.

Model	Description	Order No.
Alyza IQ NH₄-111	NH ₄ analyzer, 1-channel, with 2 measuring ranges, Indophenol method, connectable to the IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825011
Alyza IQ NH₄-112	NH ₄ analyzer, 2-channel, with 2 measuring ranges, Indophenol method, connectable to the IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825012
Reagent sets		
R-Set NH₄/1-1	Reagents for Alyza IQ NH ₄ , when using MR 1	827540
R-Set NH₄/1-2	Reagents for Alyza IQ NH ₄ , when using MR 2	827541
SC-Set NH₄/1-1_0/1	Calibration standards and cleaning solution for Alyza IQ NH ₄ , when using MR 1; Calibration standards with 0 mg/l and 1 mg/l	827545
SC-Set NH₄/1-1_0/4	Calibration standards and cleaning solution for Alyza IQ NH ₄ , when using MR 1; Calibration standards with 0 mg/l and 4 mg/l	827546
SC-Set NH₄/1-2_0/16	Calibration standards and cleaning solution for Alyza IQ NH ₄ , when using MR 2; Calibration standards with 0 mg/l and 16 mg/l	827547

Orthophosphate Analyzer Alyza IQ

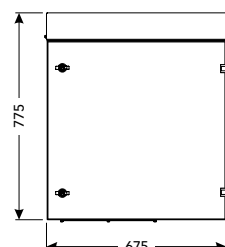


To control precipitant dosing and to monitor the outlet of a wastewater treatment plant with the IQ SENSOR NET (Systems 2020 and 282/284)

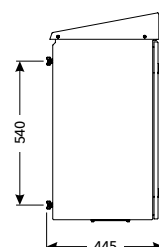
We would like to inform you about the application range on our website



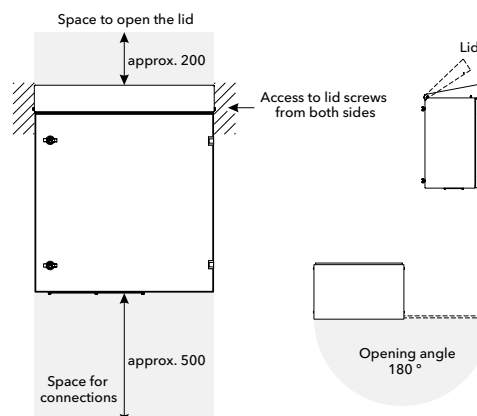
Front view:



Lateral view:



Required space



Technical Data

Model	Alyza IQ PO ₄ -111	Alyza IQ PO ₄ -112	Alyza IQ PO ₄ -121	Alyza IQ PO ₄ -122
Measuring method	Molybdate vanadate method (Yellow method)			
Measuring range	MR 1: 0.02 ... 15.00 mg/l PO ₄ -P Displayed: 0.00 ... 15.00 mg/l PO ₄ -P		MR 2: 0.2 ... 50.0 mg/l PO ₄ -P Displayed: 0.0 ... 50.0 mg/l PO ₄ -P	
Resolution	0.01 mg/l PO ₄ -P		0.05 mg/l PO ₄ -P	
Accuracy	± 2 % ± 0.02 mg/l		± 2 % ± 0.2 mg/l	
Sample streams/channels	1 channel	2 channel	1 channel	2 channel
pH range	5 ... 9			
Sample temperature	+39 ... +113 °F (+4 ... +45 °C)			
Filtration unit	Filter/PC, FM-Case/PC (please order separately)			
Cleaning	Automatic cleaning with cleaning solution			
Calibration	Automatic 1- and 2-point calibration			
Ambient conditions	Operational temperature: -4 ... +104 °F (-20 ... +40 °C); Storage temperature: -4 ... +122 °F (-20 ... +50 °C)			
Electrical connection	120 VAC / 240 VAC, 50/60 Hz			
Mechanics	Housing: powder-coated aluminum, UV resistant Overflow vessel: PMMA			
Weight	Approx. 81.6 lb (37 kg) (without liquids)			
Certifications	cETLus, CE			
Warranty	2 years			

Subject to technical modifications.

Model	Description	Order No.
Alyza IQ PO₄-111	PO ₄ analyzer, 1-channel, with MR 1, yellow method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825511
Alyza IQ PO₄-112	PO ₄ analyzer, 2-channel, with MR 1, yellow method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825512
Alyza IQ PO₄-121	PO ₄ analyzer, 1-channel, with MR 2, yellow method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825521
Alyza IQ PO₄-122	PO ₄ analyzer, 2-channel, with MR 2, yellow method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825522
Reagent sets		
R-Set PO4/1-1	Reagents for Alyza IQ PO ₄ -X1X with MR 1	827550
R-Set PO4/1-2	Reagents for Alyza IQ PO ₄ -X2X with MR 2	827551
SC-Set PO4/1-1_0/1	Calibration standards and cleaning solution for Alyza IQ PO ₄ -X1X with MR 1; Calibration standards with 0 mg/l and 1 mg/l	827555
SC-Set PO4/1-1_0/10	Calibration standards and cleaning solution for Alyza IQ PO ₄ -X1X with MR 1; Calibration standards with 0 mg/l and 10 mg/l	827556
SC-Set PO4/1-2_10/40	Calibration standards and cleaning solution for Alyza IQ PO ₄ -X2X with MR 2; Calibration standards with 10 mg/l and 40 mg/l	827557

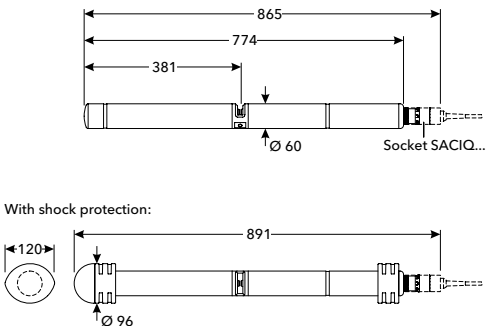


NiCaVis® optical sensors for surface water monitoring



Multiparameter-sensors with ultrasonic cleaning technology for the reagent-free measurement of color, nitrate, nitrite, carbon parameters and total suspended solids in rivers and lakes.

We would like to inform you about the application range on our website

Model	NiCaVis® 705 IQ SF			NiCaVis® 705 IQ NI SF		NiCaVis® 705 IQ SF Co	
Measuring method	Spectral measurement in the UV-VIS range of 200-720 nm			Spectral measurement in the UV range of 200-390 nm		Spectral measurement in the UV-VIS range of 200-720 nm	
Measuring gap (optical layer thickness)	5 mm						
Application (optimized for)	Surface water e.g. rivers and lakes						
Measuring range and Resolution	NO ₃	0.0 ... 250.0 mg/l	0.1 mg/l	0.0 ... 250.0 mg/l	0.1 mg/l	0.0 ... 250.0 mg/l	0.1 mg/l
	NO ₃ -N	0.00 ... 50.00 mg/l	0.01 mg/l	0.00 ... 50.00 mg/l	0.01 mg/l	0.00 ... 50.00 mg/l	0.01 mg/l
	NO ₂			0.0 ... 100.0 mg/l	0.1 mg/l		
	NO ₂ -N			0.00 ... 25.00 mg/l	0.01 mg/l		
	COD _{diss.}	0.0 ... 800.0 mg/l	0.1 mg/l	0.0 ... 800.0 mg/l	0.1 mg/l	0.0 ... 800.0 mg/l	0.1 mg/l
	TOC	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	DOC	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	BOD	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	SAC _{254 total}	0.0 ... 600.0 1/m	1 1/m	0.0 ... 600.0 1/m	1 1/m	0.0 ... 600.0 1/m	1 1/m
	SAC _{254 diss.}	0.0 ... 600.0 1/m	1 1/m			0.0 ... 600.0 1/m	1 1/m
	UVT _{254 total} *	0.0 ... 100.0 %	0.1 %	0.0 ... 100.0 %	0.1 %	0.0 ... 100.0 %	0.1 %
	UVT _{254 diss.} *	0.0 ... 100.0 %	0.1 %			0.0 ... 100.0 %	0.1 %
	TSS	0.0 ... 900.0 mg/l	0.1 mg/l				
	Hazen 340 nm					0 ... 1,050 mg/l Pt/Co	1 mg/l
	Hazen 350 nm					0 ... 1,150 mg/l Pt/Co	1 mg/l
	Hazen 390 nm					0 ... 2,100 mg/l Pt/Co	1 mg/l
	Hazen 445 nm					150 ... 10,000 mg/l Pt/Co	1 mg/l
	Hazen 455 nm					150 ... 10,000 mg/l Pt/Co	1 mg/l
	Hazen 465 nm					150 ... 10,000 mg/l Pt/Co	1 mg/l
	ISO 410 nm					0 ... 5,300 mg/l Pt/Co	1 mg/l
Displayable Parameters	Up to 5 at the same time			<div>NiCaVis® 705 IQ SF, NiCaVis® 705 IQ NI SF, NiCaVis® 705 IQ SF Co</div> 			
Accuracy (standard application surface water)	NO ₃ -N, NO ₂ -N: ± 3 % of measured value ± 0.5 mg/l Carbon parameters: ± 5 % of measured value ± 2.5 mg/l SAC: ± 0.5 % of measured value ± 0.4 SAK UVT: <10 % UVT ± 1 % UVT of measured value; >10% UVT ± 0.1 % UVT of measured value TSS: ± 5 % of measured value ± 50 mg/l Color: ± 5 % (at 410 nm) of the measurement value ± 10 mg/l						
Turbidity compensation	For color parameters: selectable						
Flow rate	≤ 3 m/s						
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)						
Electrical connections	2-wire shield cable with quick fastener to sensor			With shock protection:			
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation						
Certifications	CE, UKCA						
Mechanical	Housing: Titan Grade 2, PEEK; Window: Sapphire glass; Protection class: IP 68						
Weight (without cable)	Approx. 8.82 lb (4 kg)						
Warranty	2 years for defects in quality						

* The UVT-254 value is standardized to 10 mm gap width.

Model	Description	Order No.
NiCaVis® 705 IQ SF	Spectral UV-VIS probe to measure Nitrate, COD _{diss.} , TOC, BOD, DOC, SAC, UVT ₂₅₄ and TSS in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481058
NiCaVis® 705 IQ NI SF	Spectral UV probe to measure Nitrate, Nitrite, COD _{diss.} , TOC, BOD, DOC, SAC and UVT ₂₅₄ in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481059
NiCaVis® 705 IQ SF Co	Spectral UV-VIS probe to measure Nitrate, Color, COD _{diss.} , TOC, BOD, DOC, SAC and UVT ₂₅₄ in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481060

All probes without connecting cable (order SACIQ separately)





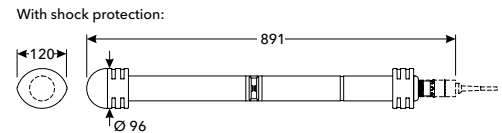
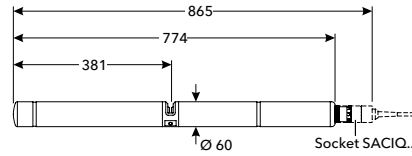
Digital optical sensors for color, carbon, TSS and nitrate



Sensor with integrated ultrasonic cleaning for the reagent-free measurement of color, carbon, suspended solids and nitrate in the wastewater treatment system drain

We would like to inform you about the application range on our website

ColorVis 705 IQ,
CarboVis® 705 IQ TS Co,
NiCaVis® 705 IQ TS Co



Model	ColorVis® 705 IQ	CarboVis® 705 IQ TS Co	NiCaVis® 705 IQ TS Co
Measuring method	Absorbance Measurement at selected wavelength	Spectral measurement in the UV-VIS range of 200-720 nm	
Measuring gap (optical layer thickness)	5 mm		
Application (optimized for)	Municipal wastewater:		
Measuring range and Resolution	Effluent: NO ₃ NO ₃ -N COD _{total} COD _{dissolv} * TOC DOC BOD SAC _{254 total} SAC _{254 dissolv} UVT _{254 total} * UVT _{254 dissolv} * TSS Hazen 340 nm Hazen 350 nm Hazen 390 nm Hazen 445 nm Hazen 455 nm Hazen 465 nm ISO 410 nm	Effluent: 0.0 ... 800.0 mg/l 0.0 ... 800.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 600.0 1/m 0.0 ... 600.0 1/m 0.0 ... 100.0 % 0.0 ... 100.0 % 0.0 ... 900.0 mg/l 0 ... 1,050 mg/l Pt/Co 0 ... 1,150 mg/l Pt/Co 0 ... 2,100 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 0 ... 5,300 mg/l Pt/Co	Effluent: 0.0 ... 250.0 mg/l 0.00 ... 50.00 mg/l 0.0 ... 800.0 mg/l 0.0 ... 800.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 600.0 1/m 0.0 ... 600.0 1/m 0.0 ... 100.0 % 0.0 ... 100.0 % 0.0 ... 900.0 mg/l 0 ... 1,050 mg/l Pt/Co 0 ... 1,150 mg/l Pt/Co 0 ... 2,100 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 0 ... 5,300 mg/l Pt/Co
Displayable Parameters	Up to 3 at the same time	Up to 5 at the same time	Up to 5 at the same time
Accuracy (standard application muni. WWTP)	NO ₃ -N: ± 3 % of measured value ± 0.5 mg/l Carbon parameters: ± 5 % of measured value ± 2.5 mg/l SAC: ± 0.5 % of measured value ± 0.4 SAK UVT: <10% UVT ± 1 % UVT of measured value; >10% UVT ± 0.1 % UVT of measured value TSS: ± 5% of measured value ± 50mg/l Color: ± 5 % (at 410 nm) of the measurement value ± 10 mg/l		
Turbidity compensation	For color parameters: selectable		
Flow rate	≤ 3 m/s		
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)		
Electrical connections	2-wire shield cable with quick fastener to sensor		
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation		
Certifications	CE, UKCA		
Mechanical	Housing: Titan Grade 2, PEEK; Window: Sapphire glass; Protection class: IP X8		
Weight (without cable)	Approx. 8.82 lb (4 kg)		
Warranty	2 years for defects in quality		

* The UVT-254 value is standardized to 10 mm gap width.

Model	Description	Order No.
ColorVis 705 IQ	Spectral UV-VIS probe for measuring color (Hazen 340, 390, 445, 455, 465, ISO 410) with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481067
CarboVis® 705 IQ TS Co	Spectral UV-VIS probe for measuring color, COD _{tot} , COD _{dissolv} , TOC, BOD, DOC, SAC _{tot} , SAC _{dissolv} , UVT ₂₅₄ and TSS in the drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481065
NiCaVis® 705 IQ TS Co	Like CarboVis® 705 IQ TS Co, but with nitrate	481066

All probes without connecting cable (order SACIQ separately)



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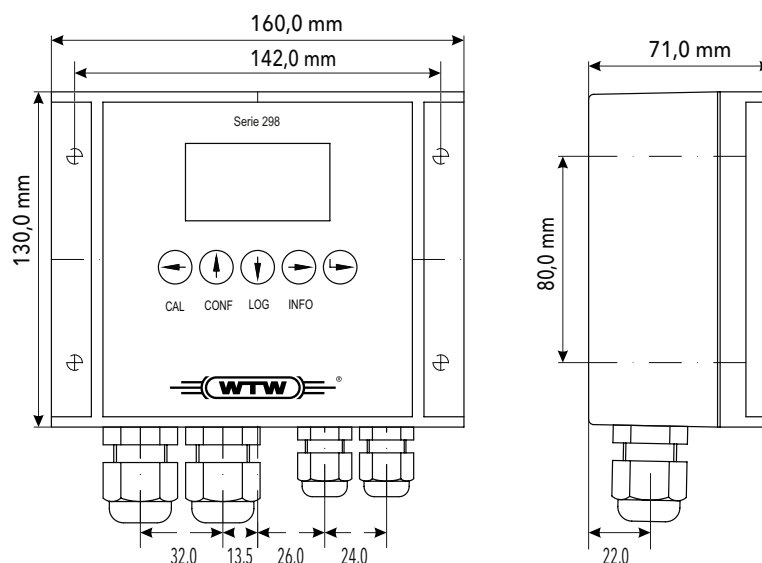
Analog controllers



pH 298, Oxi 298, LF 298 and CI 298

are analog controllers to directly connect analog pH/ORP electrodes, oxygen sensors, conductivity cells and chlorine electrodes.

We would like to inform you about the application range on our website



Technical Data

Model	pH 298	Oxi 298	LF 298	CI 298
Parameter	pH/ORP	Oxygen	Conductivity	Chlorine, elektrochemical
Measuring Range	-2 ... 16 pH -2000 ... +2000 mV	0 ... 20 mg/l 0 ... 200 %	0 ... 500 mS/cm, different measuring ranges adjustabel	0 ... 2 mg/l
Temperature Measurement*)	-10 ... 130 °C NTC or Pt1000 or Pt100	-10 ... 130 °C NTC or Pt1000		-10 ... 130 °C Pt1000
Temperature Compensation	Automatically via temperature measurement in the sensor or via manual input			
Relays	2 x switching contacts, change-over, max. 250 VAC / 5 A			
Current Outputs	2 x 0(4) ... 20 mA			
Digital Interface	Modbus / RS485 USB (for configuration, calibration, data recording)			
Display	OLED (128 x 64 pixel) with plain text menue			
Data Logger	Integrated with real time clock for 4000 datasets, storable via USB, grafical display			
Electric Supply	100 ... 240 V AC or 18 ... 36 V DC			
Ambient Conditions	Operational temperature: -10 ... 55 °C			
Housing Material	Cast Aluminium for wall mounting			
Protection Rating	IP 65			
Weight	2 kg			
Warranty	3 years on defects in quality according to § 10 terms of condition			

*) Please note: The permitted operating voltage of the sensor can vary considerably

Model	Description	Order No.
pH 298 NTC	Analog controller to measure pH/ORP, 230 V (and 115 V) and NTC	191230
pH 298 Pt100	Analog controller to measure pH/ORP, 230 V (and 115 V) and Pt100	191232
pH 298 Pt1000	Analog controller to measure pH/ORP, 230 V (and 115 V) and Pt1000	191234
Oxi 298 NTC	Analog controller to measure oxygen, 230 V (and 115 V) and NTC	291230
Oxi 298 Pt1000	Analog controller to measure oxygen, 230 V (and 115 V) and Pt1000	291234
LF 298 NTC	Analog controller to measure conductivity, 230 V (and 115 V) and NTC	391230
LF 298 Pt1000	Analog controller to measure conductivity, 230 V (and 115 V) and Pt1000	391234
CI 298 Pt1000	Analog controller to measure chlorine, 230 V (and 115 V) and Pt1000	801254

24V versions available upon request



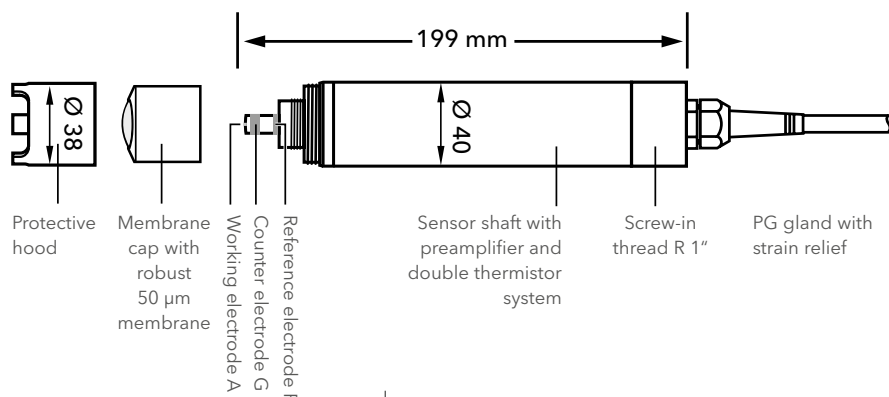
Analog electrochemical oxygen sensors

TriOxmatic®

The WTW TriOxmatic® has proven its worth in the field over years: More than 20,000 installations in reliable Online operation speak for themselves ...

We would like to inform you about the application range on our website

TriOxmatic® 690, TriOxmatic® 700, TriOxmatic® 701



Technical Data

Model	TriOxmatic® 690	TriOxmatic® 701
Measuring principle	Amperometric	
Measuring Range (25 °C, depends on respective controller)		
O₂ Concentration	0.0 ... 60.0 mg/l	0.00 ... 20.00 mg/l; 0.0 ... 60.0 mg/l
O₂ Saturation	0 ... 600 %	0.0 ... 200.0 %; 0 ... 600 %
Resolution		
O₂ Concentration	0.1 mg/l	0.01 mg/l; 0.1 mg/l
O₂ Saturation	1 %	0.1 %; 1 %
Response time at 25 °C	t ₉₀ : 180 s	t ₉₀ : 30 s; t ₉₉ : 90 s
Minimum flow rate	0.05 m/s	0.23 m/s
SensCheck	-	SensLeck, SensReg
Temperature Measurement	Integrated NTC, -5 °C ... +50 °C	
Temperature Compensation	0 °C ... +50 °C	
Pressure Resistance	Maximum 10 bar	
Ambient Conditions	Operational temperature: 0 °C ... +50 °C; Storage Temperature: -5 °C ... +50 °C	
Electrical Connection	Integrated connection cable with 7-pole screw plug (IP 65); electrical supply via WTW controller	
Electromagnetic Compatibility	According to EN 61326 class B and FCC class A	
Certifications	CE, cUL, UL	
Mechanical		
Membrane/ sensor head, Protection hood	POM	
Housing shaft	Stainless steel 1.4571	
Protection Rating	IP 68	
Cable	PUR	PU
Weight (without cable)	Approx. 660 g	
Warranty	2 years on defects in quality according to § 10 terms of conditions	

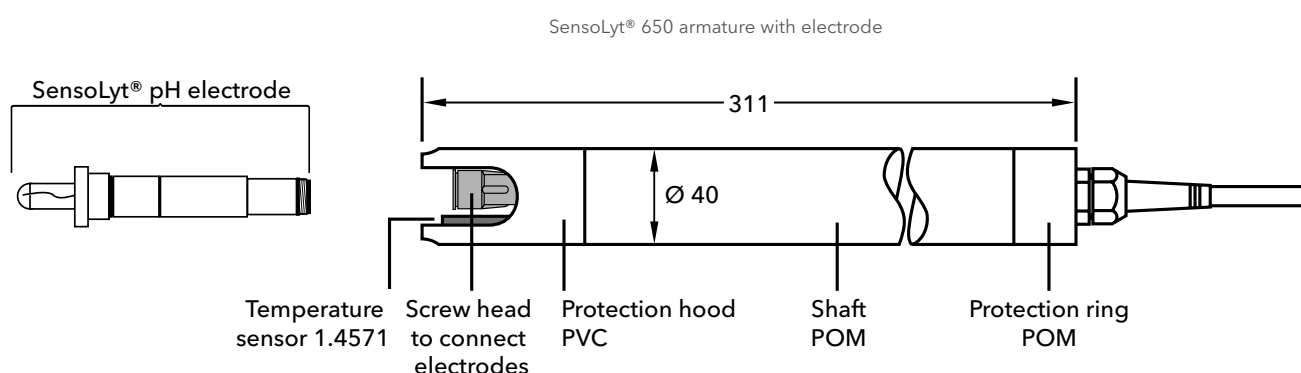
Model	Description	Order No.
TriOxmatic® 690-7	Universal oxygen sensor without self diagnosis, with normal response time, cable length 7 m	201690
TriOxmatic® 690-15	Like TriOxmatic® 690-7, but cable length 15 m	201692
TriOxmatic® 690-SO	Like TriOxmatic® 690-7, but cable length freely selectable	201693V
TriOxmatic® 701-7	Oxygen sensor with automatic self diagnosis and faster response time, cable length 7 m	201678
TriOxmatic® 701-15	Like TriOxmatic® 701-7, but cable length 15 m	201680
TriOxmatic® 701-SO	Like TriOxmatic® 701-7, but cable length freely selectable	201682V



Analog pH/ORP armature SensoLyt®

pH/ORP armature for SensoLyt®
electrodes, with overvoltage protection
and integrated temperature sensor

*We would like to inform you about the application range
on our website*



Technical Data

Model	SensoLyt® 650
Measuring principle	Potentiometric
Measuring Range	4 ... 12 pH (armature)
Integrated preamplifier	No
Signal output	High-impedance
Temperature Measurement	Integrated NTC 0 ... +60 °C
Pressure Resistance	10 bar
Ambient Conditions	Operational temperature: 0 ... +60 °C
Electrical Connection	Integrated PUR connection cable with 7-pole screw plug
Certifications	CE
Mechanical	Sensor shaft: POM; Protection hood: PVC; Protection rate IP 68
Weight (without cable)	Approx. 320 g
Warranty	2 years on defects in quality according to § 10 terms of conditions

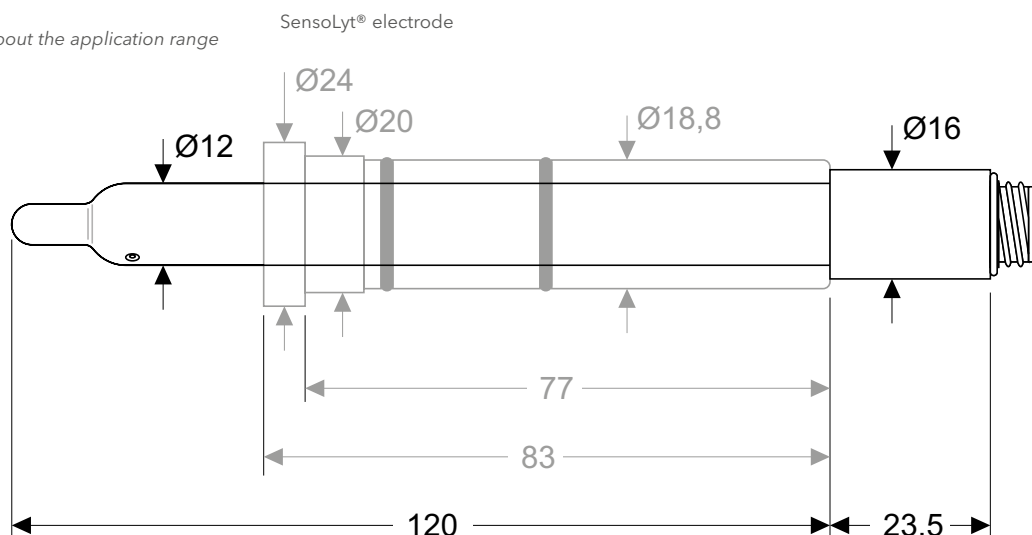
Model	Description	Order No.
SensoLyt® 650-7	pH/ORP armature with high-impedance signal transmission and integrated temperature sensor, cable length 7 m	109195



Analog pH/ORP electrodes (Sensolyt® series)

Sensolyt® electrodes for all applications – from drinking water to wastewater. Armed versions for connection with Sensolyt® armature

We would like to inform you about the application range on our website



Technical Data

Sensolyt® Models		SEA-HP	SEA	SE	DWA	DW	ECA	EC	TFA	PtFA	PtA	Pt
Reference System		Polymer solid electrolyte			Modified gel electrolyte		Polymer solid electrolyte					
Diaphragm		2-hole junction			Ceramic junction		1-hole junction		PTFE ring dia- phragm		2-hole junction	
Pressure Resistance	at 20 °C	10 bar	10 bar	–	10 bar	–	10 bar	–	10 bar		–	
	at 60 °C	10 bar	1 bar	–	1 bar	–	1 bar	–	1 bar		–	
Temperature Range		0 ... +60 °C										
Measuring Range / Range of Application		4 ... 12 pH	2 ... 12 pH		0 ... 14 pH		2 ... 12 pH			±2.000 mV		
Mechanical	Shaft	Glass										
	Armor	POM	PVC-U	–	PVC-U	–	PVC-U	–	PVC-U		–	
	Connection head	PPS-GF 40										
	O rings	FPM (Viton)										
	Watering cap	PE										
Temperature sensor		Integrated in Sensolyt® armature										
Electrical Connection		Watertight plug-in system (S7)										
Warranty		6 months on defects in quality according to § 10 terms of conditions										

Model	Description	Order No.
Sensolyt® SEA	pH electrode for heavily loaded wastewater, to be connected to Sensolyt® armature	109115
Sensolyt® TFA	pH electrode for industrial or non typical municipal wastewater, to be connected to Sensolyt® armature	109114
Sensolyt® ECA	pH electrode for normally charged wastewater, to be connected to Sensolyt® armature	109117
Sensolyt® SEA-HP	pH electrode to be used under increased pressure and temperature conditions, to be connected to Sensolyt® armature	109118
Sensolyt® DWA	pH electrode for drinking water, to be connected to Sensolyt® armature	109119
Sensolyt® PtA	ORP electrode for heavily loaded wastewater, to be connected to Sensolyt® armature	109125
Sensolyt® PtFA	ORP electrode for industrial or non typical municipal wastewater, to be connected to Sensolyt® armature	109126
Sensolyt® SE	Like model SEA, but unarmored, to be installed by example in flow cells	109100
Sensolyt® EC	Like model ECA, but unarmored, to be installed by example in flow cells	109102
Sensolyt® DW	Like model DWA, but unarmored, to be installed by example in flow cells	109103
Sensolyt® Pt	Like model PtA, but unarmored, to be installed by example in flow cells	105412

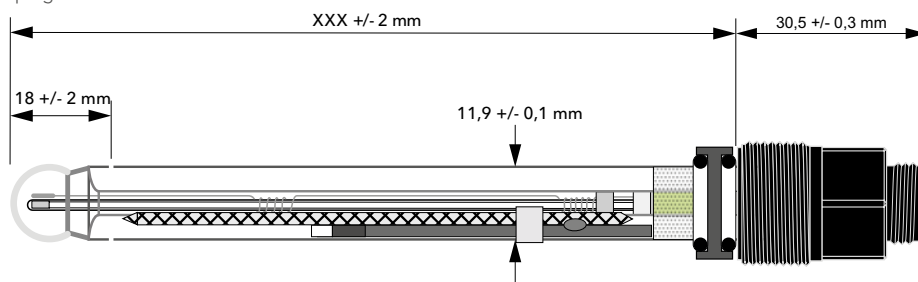


Analog pH/ORP electrodes (ProcessLine® series)

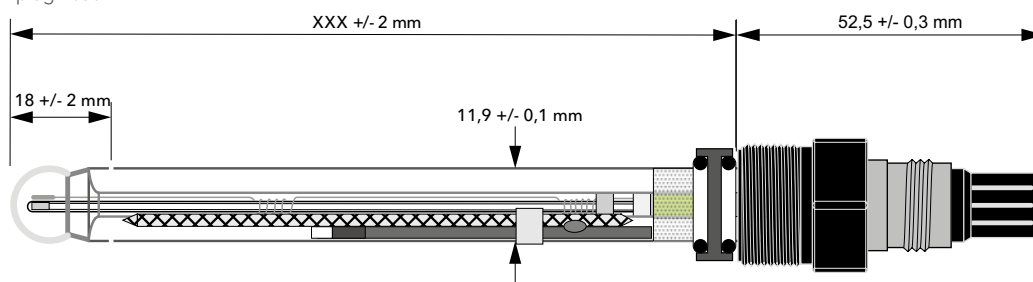
ProcessLine® (PL) electrodes for all applications: To be installed in a flow cell or in a retractable armature

We would like to inform you about the application range on our website

ProcessLine® electrode with S8 plug head



ProcessLine® electrode with VP plug head



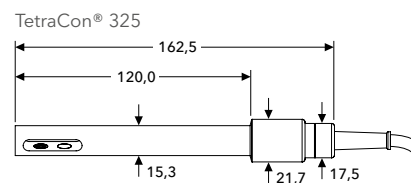
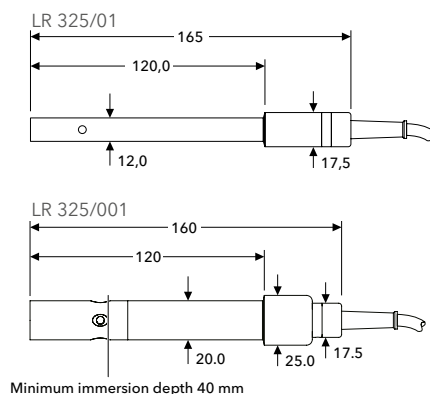
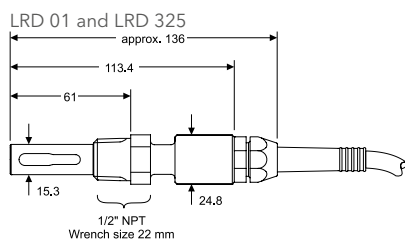
Technical Data

ProcessLine® Models	PL 80-120pH	PL 80-225pH	PL 81-225pHT VP	PL 82-225pHT VP	PL 89-225Pt
Reference System	DuraLid polymere electrolyte, low maintenance, Ag/AgCl system				
Diaphragm	2-hole junction				
Pressure Resistance	12 bar				
Temperature Range	0 ... +130 °C				
Measuring range / Range of application	pH 0 ... 14				± 2000 mV
Mechanical	Shaft: Glass Screw-in thread: PPS O rings: Viton® Flat washer: Stainless steel 1.4571 Watering cap: PE				
Dimensions	Installation length	120 mm	225 mm	225 mm	225 mm
	Shaft Ø	12 mm			
Temperature sensor	–		Pt 1000	Pt 100	–
Electrical Connection	S8 plug head, PG 13,5		VP plug, PG 13,5	VP plug, PG 13,5	S8 plug head, PG 13,5
Warranty	6 months on defects in quality according to § 10 terms of conditions				

Model	Description	Order No.
PL 80-120pH	pH electrode with S8 plug head, measuring range 0 ... 14 pH	109233
PL 80-225pH	pH electrode with S8 plug head, measuring range 0 ... 14 pH, can be installed in CHEMTrac 830 M retractable armature	109234
PL 81-225pHT VP	pH electrode with VP plug head, measuring range 0 ... 14 pH, can be installed in CHEMTrac 830 M retractable armature	109236
PL 82-225pHT VP	pH electrode with VP plug head, measuring range 0 ... 14 pH, can be installed in CHEMTrac 830 M retractable armature	109239
PL 89-225Pt	ORP electrode with S8 plug head, measuring range ±2000 mV, can be installed in CHEMTrac 830 M retractable armature	109235

The analog conductivity measuring cells are equipped with an integrated temperature compensation and cover all applications

We would like to inform you about the application range on our website



Technical Data

Model	LRD 01	LRD 325	LR 325/01	LR 325/001	TetraCon® 325	TetraCon® DU/T
Measuring principle	Conductometric (2 electrode cell)	Conductometric (4 electrode cell)	Conductometric (2 electrode cell)		Conductometric (4 electrode cell)	
Measuring Range	0.001 µS/cm ... 200 µS/cm	1 µS/cm ... 2 S/cm	0.001 µS/cm ... 200 µS/cm	0.0001 µS/cm ... 30 µS/cm	1 µS/cm ... 2 S/cm	
Cell constant	0.1 cm ⁻¹ , ±2%	0.475 cm ⁻¹ , ±1.5%	K = 0.1 cm ⁻¹	K = 0.01 cm ⁻¹	K = 0.475 cm ⁻¹	K = 0.778 cm ⁻¹
Resolution	Depends on measuring range					
Temperature sensor	Integrated NTC					
Temperature Measurement	0 °C ... +130 °C	0 °C ... +100 °C	-5 °C ... 80 °C			0 °C ... 60 °C
Maximum pressure	14 bar (at 20 °C)	10 bar (at 20 °C)	2 bar			
Electrical Connection	Integrated PU connection cable with 7-pole screw plug (IP 65)		Integrated cable mit 8-pole plug			8-pole socket for cable KKDU 325
Mechanical	Shaft	Stainless steel 1.4571			Epoxy	POM
	Kable gland	Brass, nickel-plated		–	–	–
	Connection head	–	POM			–
	Electrodes	Stainless steel 1.4571	Graphite	Stainless steel 1.4571		Graphite
Protection Rating		IP68 Measuring cell until screw-in length		IP68 (Sensor with connection cable)		IP65 in plugged condition
Weight (without cable)	Approx. 350 g	Approx. 300 g	Approx. 135 g	Approx. 280 g	Approx. 135 g	Approx. 170 g
Warranty	2 years on defects in quality according to § 10 terms of conditions					

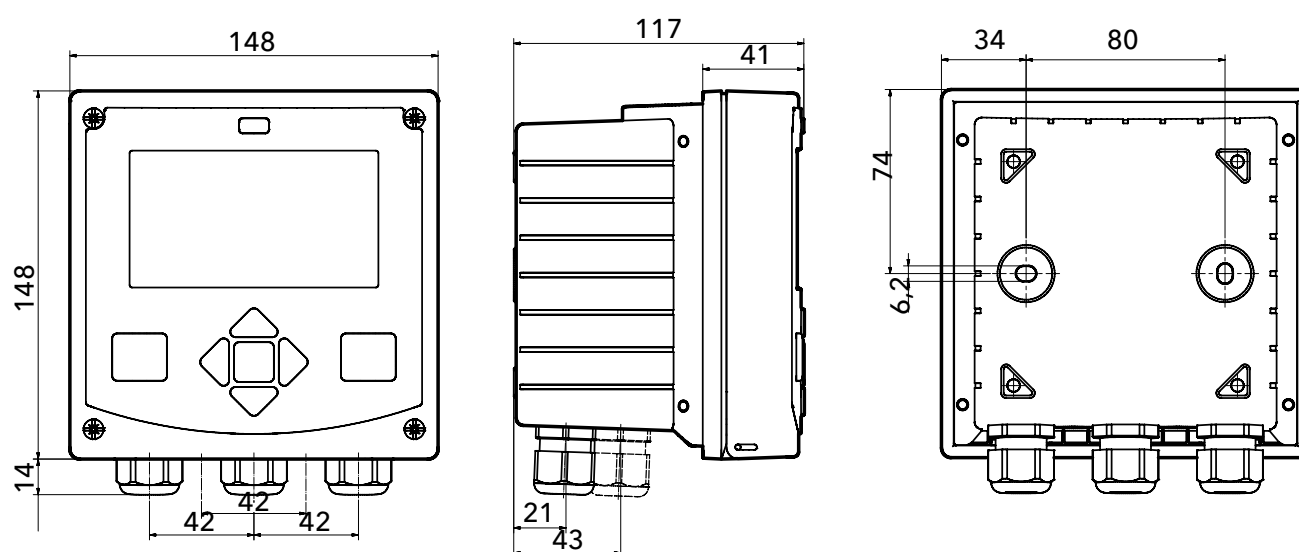
Model	Description	Order No.
TetraCon® 325	4 electrodes measuring cell, with integrated temperature sensor, cell constant K=0.475 cm ⁻¹ , cable length 1.5 m	301960
TetraCon® 325-3	Like TetraCon® 325, but cable length 3 m	301970
TetraCon® 325-6	Like TetraCon® 325, but cable length 6 m	301971
LRD 01-1,5	2 electrodes measuring cell to be screwed into pipe, with integrated temperature sensor, cable length 1.5 m	302220
LRD 01-7	Like LRD 01-1,5, but cable length 7 m	302222
LRD 325-1,5	4 electrodes measuring cell to be screwed into pipe, with integrated temperature sensor, cable length 1.5 m	302225
LRD 325-7	Like LRD 325-1,5, but cable length 7 m	302229
LR 325/01	Conductivity measuring cell for ultrapure water, with integrated temperature sensor, cell constant K=0.1 cm ⁻¹ , Glass flow cell	301961
LR 325/001	Conductivity measuring cell for trace measurement, with integrated temperature sensor, cell constant K=0.01 cm ⁻¹ , Stainless steel flow cell	301962
TetraCon DU/T	4 electrodes flow measuring cell, with integrated temperature sensor, cell constant: K=0.0778 cm ⁻¹	301252



Analog controllers for EX area

EX compliant controller for pH or conductivity, useable in zone 0 IIC T4 and suitable for high ambient temperatures

We would like to inform you about the application range on our website



Technical Data

Model	StratosProA201xpH-0	StratosProA201xpH-1	StratosProA201xCond-0	StratosProA201xCond-1
Displayed	-2.00 ... +16.00		0.000 µS/cm ... 999.9 mS/cm	
Outputs	4 ... 20 mA each (22 mA at error message)			
Measured value	pH or mV or temperature		Conductivity, spec. resistance, concentration, salinity or temperature	
Explosion protection	II 1G Ex ia IIC T4			
EMC	EN 61326-1, class B			
LC-Display	Main display, secondary display, text, Sensoface®, status display			
Warranty	2 years on defects in quality according to § 10 terms of conditions			

Model	Description	Order No.
StratosProA201xpH-0	Controller for pH with 1 current output	109 444 EX
StratosProA201xpH-1	Controller for pH with 2 current outputs	109 445 EX
StratosProA201xCond-0	Controller for conductivity with 1 current output	300 944 EX
StratosProA201xCond-1	Controller for conductivity with 2 current outputs	300 945 EX

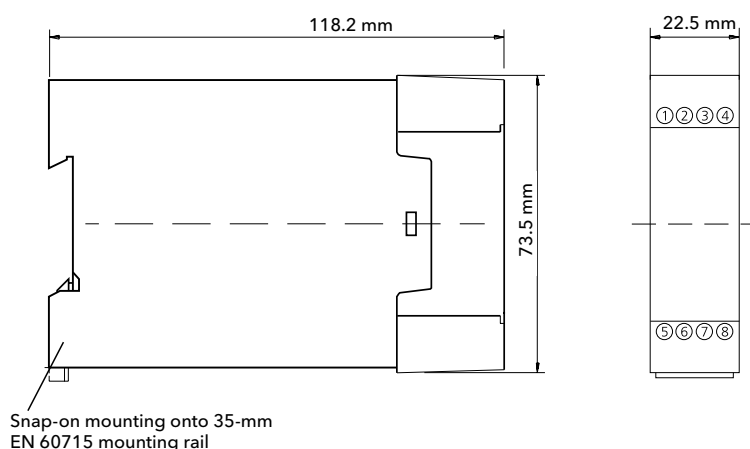
Isolated amplifier for EX area



The isolated amplifier WG21A7 provides power for the intrinsically safe controller and transfers the measured value.

Integration into the IQ SENSOR NET is possible with auxiliary voltage option and module MIQ/IC2.

We would like to inform you about the application range on our website



Technical Data

Current loop	Intrinsically safe supply voltage $\geq 18\text{ V}$
Output	4 ... 20 mA
Construction	Modular housing A7, with snap-on mounting for top-hat rail 35 mm, according to DIN EN 50022
Protection Rating	IP40, terminals IP20
Explosion protection	II (1)G [Ex ia Ga] IIC
EMC	EN 61326-1, class B
Warranty	3 years on defects in quality according to § 10 terms of conditions

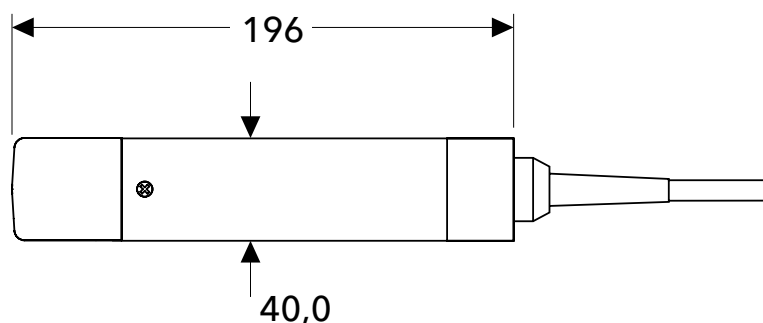
Model	Description	Order No.
WG21A7	Isolated amplifier	109 446 EX
WG21A7 Opt. 336	Isolated amplifier, with auxiliary voltage 24 V AC/DC	109 447 EX
WG21A7 Opt. 470	Isolated amplifier, with HART® communication	109 448 EX
WG21A7 Opt. 336,470	Isolated amplifier, with auxiliary voltage and HART® communication	109 449 EX



Analog conductivity measuring cells TetraCon® for EX area

Conductivity measuring cells for locations in explosive atmosphere (EX area, Zone 1 IIC T6) – TetraCon® 700 EX with 4 electrodes system

We would like to inform you about the application range on our website



Technical Data

Model	TetraCon® 700 EX
Measuring principle	Conductometric (4-electrode cell)
Measuring Range	10 µS/cm ... 1000 mS/cm
Cell constant	$K = 0.917 \text{ cm}^{-1}$, $\pm 1.5 \%$ (in free solution)
Signal output	Analog
Temperature sensor	NTC, integrated in measuring cell
Temperature Measurement	0 °C ... +40 °C, $\pm 0.2 \text{ K}$
Electrical Connection	PUR connection with open wires
Certifications	CE
Mechanical	Shaft: POM, conductive Sensor head: PVC, Epoxy (filler) Protection ring: POM, conductive Temperature sensor, electrodes: Graphite Protection rating: IP 68
Weight (without cable)	Approx. 660 g
Explosion protection	Ex ib IIC T6 Gb X
Warranty	2 years on defects in quality according to § 10 terms of conditions

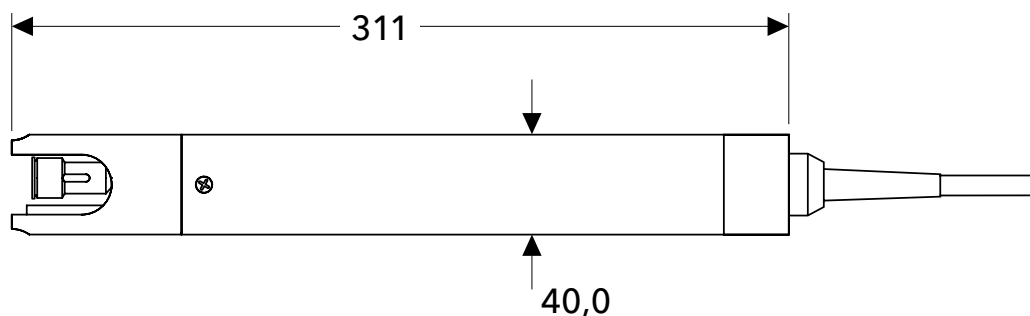
Model	Description	Order No.
TetraCon® 700-1,5 EX	Analog 4 electrodes conductivity measuring cell with integrated temperature sensor and 1.5m cable with open wires	302314EX
TetraCon® 700-7 EX	Like above, but with 7 m cable and open wires	302316EX
TetraCon® 700-15 EX	Like above, but with 15 m cable and open wires	302318EX



Analog pH/ORP armature SensoLyt® for EX area

Easy exchange of electrodes and
flexible measuring ranges – the
SensoLyt® 650-7 EX for explosion-
endangered areas (Zone1 IIC T6)

*We would like to inform you about the application range
on our website*



Technical Data

Model	SensoLyt® 650-7 EX
Integrated preamplifier	No
Signal output	High-impedance, analog
Temperature Measurement	Integrated NTC, 0 °C ... +60 °C
Ambient Conditions	Operational temperature: 0 °C ... +60 °C
Electrical Connection	Pur connection with open wires
Certifications	CE
Mechanical	Shaft: POM, conductive Protection cage: POM, conductive Protection ring: POM, conductive Temperature sensor: Stainless steel 1.4571 Protection rating: IP 68
Weight	Approx. 800 g (incl. 7 m cable, without electrode)
Explosion protection	Ex ib IIC T6 Gb X
Warranty	2 years on defects in quality according to § 10 terms of conditions

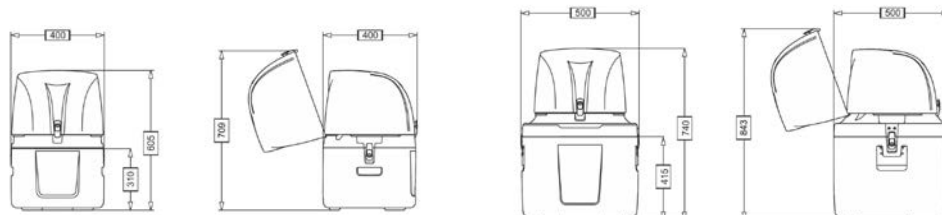
Model	Description	Order No.
SensoLyt® 650-7 EX	Analog pH/ORP armature for explosion-endangered area (Ex ib IIC T6 Gb X), connectable to StratosProA201XpH-0(-1). Electrodes need to be ordered separately	109195EX
SensoLyt® SEA EX	pH electrode for explosion-endangered area (only when connected to SensoLyt® 650-7 EX Sensor), measuring range 2 ... 12 pH, for heavily loaded wastewater.	109115EX
SensoLyt® ECA EX	pH electrode for explosion-endangered area (only when connected to SensoLyt® 650-7 EX Sensor), measuring range 2 ... 12 pH, for normally charged wastewater (e.g. municipal wastewater).	109117EX
SensoLyt® SEA-HP EX	pH electrode for explosion-endangered area (only when connected to SensoLyt® 650-7 EX Sensor), measuring range 4 ... 12 pH, to be used under increased pressure and temperature conditions.	109118EX
SensoLyt® DWA EX	pH electrode for explosion-endangered area (only when connected to SensoLyt® 650-7 EX Sensor), measuring range 0 ... 14 pH, for drinking water application.	109119EX
SensoLyt® PtA EX	ORP electrode for explosion-endangered area (only when connected to SensoLyt® 650-7 EX Sensor), measuring range ±2000 mV, for heavily loaded wastewater.	109125EX



Portable Samplers PB-M

Mobile sampling in safe hands. The lightweight design and the compact housing of the **PB-M** ensure a unique carrying comfort. The modern operating structure and vacuum pump system allow a carefree sampling process.

We would like to inform you about the application range on our website



Technical Data

Model	PB-M-S	PB-M-L
Sampling method	Vacuum-System	
Sampling fractioning	Collection container (PE): 1 x 13 l	Bottles (PE): 24 x 1 l*
Dosing	20 ... 350 ml	
Sampling modes	Time-, amount-, event-proportional or manual	
Volume accuracy	<2.5 % or ± 3 ml	
Sampling temperature	+32 ... +104 °F (0 ... +40 °C)	
Ambient temperature	+32 ... +122 °F (0 ... +50 °C)	
Suction height	Max. 21 ft (6.5 m) at 1013 hPa	
Suction tube	PVC, 16 ft (5 m), 0.39 in (10 mm), fabric reinforced**	
Signal inputs	2 x 0(4) ... 20 mA 8x digital (amount, event, freely programmable)	
Programming	12 programs (freely programmable); with function to link programs	
Program start	Immediately, at a certain time, by an external signal	
Program stop	End of sampling program after one program run, continuous operation or x-runs	
Pause mode	Interruption of program run at any time	
Languages	Multi-language, selectable	
Signal outputs / status messages	8 x digital, 1 x collective malfunction message	
Data logging	3000 entries, nonvolatile data memory, storage of sampling and malfunction data (sampling extraction, bottle changes, messages, external signals)	
Interfaces	Mini-USB, RS422/485, Ethernet RJ45	
Housing	ABS, double-walled insulation	
Wetted materials	PC, PVC, silicone, PS, PE	
Dimensions (D x H)	15.8 x 23.8 in (400 x 605 mm)	19.7 x 29.1 in (500 x 740 mm)
Weight	17.6 lb (8 kg)	26.5 lb (12 kg)
Power supply	12 V	
Standards	CE, sampling according to ISO 5662-10 and EN 16479	
Protection Rating	IP65 (power supply)	
Warranty	2 years on defects in quality according to § 10 terms of conditions	

* further configurations on request

** expandable per meter, max. length 98 ft (30 m)

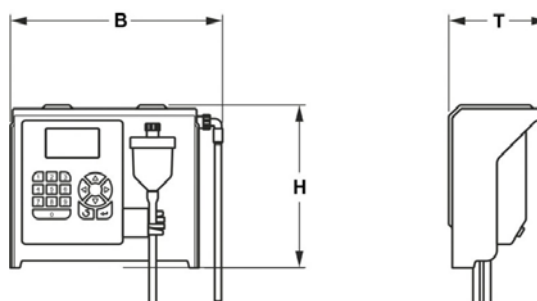
Model	Description	Order No.
PB-M-S/1	Version with 1 x 13 l collection container (PE)	503250
PB-M-L/R24	Version with 24 x 1 l sample bottles (PE)	503280

Samplers for wall mounting



With its large and quickly changeable containers, the **PB-W** is ideal for standard applications. The compact and lightweight housing assures fast mounting. Let's get ready for standardized sampling.

We would like to inform you about the application range on our website



Technical Data

Model	PB-W
Sampling method	Vacuum System
Sampling fractioning	Collection container (PE): 1 x 13 l, 1 x 25 l*
Dosing	20 ... 350 ml
Sampling modes	Time-, amount-, event-proportional or manual
Volume accuracy	<2.5 % or ± 3 ml
Sampling temperature	+32 ... +104 °F (0 ... +40 °C)
Ambient temperature	+32 ... +113 °F (0 ... +45 °C)
Suction height	Max. 21 ft (6.5 m) at 1013 hPa
Suction tube	PVC, 16 ft (5 m), 0.39 in (10 mm), fabric reinforced**
Signal inputs	2 x 0(4) ... 20 mA 8x digital (amount, event, freely programmable)
Programming	12 programs (freely programmable); with function to link programs
Program start	Immediately, at a certain time, by an external signal
Program stop	End of sampling program after one program run, continuous operation or x-runs
Pause mode	Interruption of program run at any time
Languages	Multi-language, selectable
Signal outputs / status messages	8 x digital, 1 x collective malfunction message
Data logging	3000 entries, nonvolatile data memory, storage of sampling and malfunction data (sampling extraction, bottle changes, messages, external signals)
Interfaces	Mini-USB, RS422/485, Ethernet RJ45 (optional)
Housing	PS/PC (GF10)
Wetted materials	PC, PVC, silicone, PS, PE
Dimensions (HxWxD)	14.25 x 17.4 x 8.74 in (362 x 442 x 222 mm)
Weight	22 lb (10 kg)
Power supply	230V / 115V
Standards	CE, sampling according to ISO 5662-10 and EN 16479
Protection Rating	IP65
Warranty	2 years on defects in quality according to § 10 terms of conditions

* further configurations on request

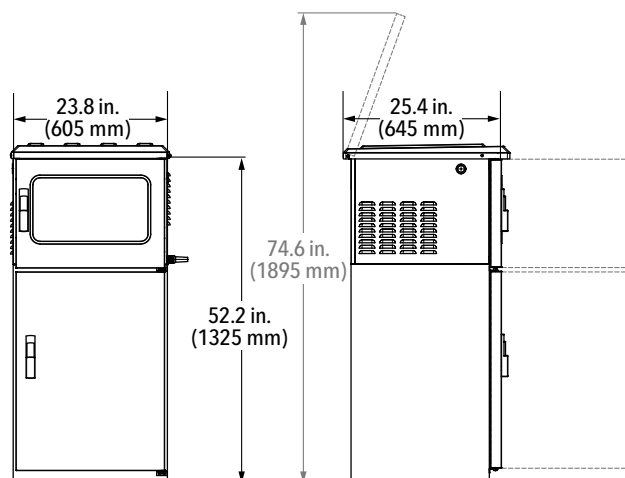
** expandable per meter, max. length 98 ft (30 m)

Model	Description	Order No.
PB-W/230V	Compact sampler for wall mounting (230 V)	503200
PB-W/115V	Compact sampler for wall mounting (115 V)	503201

Stationary sampler

Whether time- or event-controlled: The stationary samplers can be installed at any measuring point. Due to the robust stainless steel housing, the samplers are particularly resistant and take your important samples in any weather.

We would like to inform you about the application range on our website.



Technical Data

Model	PB-S/1	PB-S/R12	PB-S/R24
Sampling method	Vacuum-System		
Sampling fractioning*	Composite container (PE): 1 x 52.5 pt. (25 l)	Bottles (PE): 12 x 6.1 pt. (2.9 l)	Bottles (PE): 24 x 2.1 pt. (1 l)
Dosing	0.042 ... 0.735 p. (20 ... 350 ml)		
Sampling modes	Time-, amount-, flow-(optional), event-dependent or manual		
Volume accuracy	< 2,5 % or ± 0.0063 pt. (3 ml)		
Sampling temperature	+32 ... +104 °F (0 ... +40 °C)		
Ambient temperature	-4 ... +109 °F (-20 ... 43 °C)		
Suction height	Max. 26,25 ft. (8 m) at 1013hPa		
Suction tube	PVC, L = 24 ft. (7.5 m), ID = 0.47 in. (12 mm), fabric reinforced**		
Signal inputs	2 x 0(4) ... 20 mA 8 x digital (amount, event, freely programmable)		
Signal outputs	8 x digital, thereof 1 x collective fault signal		
Programming	12 programs (freely programmable)		
Program start	Immediately, at a certain time, by an external signal		
Program stop	End of sampling program, at a certain time, after one program run, continuous operation or x-runs		
Pause mode	Interruption of program run at any time		
Languages	Multi-language, selectable		
Status messages	1x collective fault signal, expandable to 8 (freely programmable)		
Data logging	3000 entries, nonvolatile data memory, storage of sampling and malfunction data (sampling extraction, bottle changes, messages, messages, external signals)		
Interfaces	Mini USB, RS232		
Housing	Double-walled stainless steel (material 1.4301/ SS304) / PS / PC (GF10) with 40 mm insulation. Housing separated in sample compartment and control compartment. Protective top made of Styrosun		
Wetted materials	PC, PVC, Silicone, PS, PE, EPDM		
Weight	220.5 lb (100 kg)		
Power supply	230V		
Standards	CE, sampling according to ISO 5667-2/3-10		
Protection Rating	IP65		
Warranty	2 years on defects in quality according to § 10 terms of conditions		

* further configurations on request

** expandable per meter, max. length 98 ft (30 m)

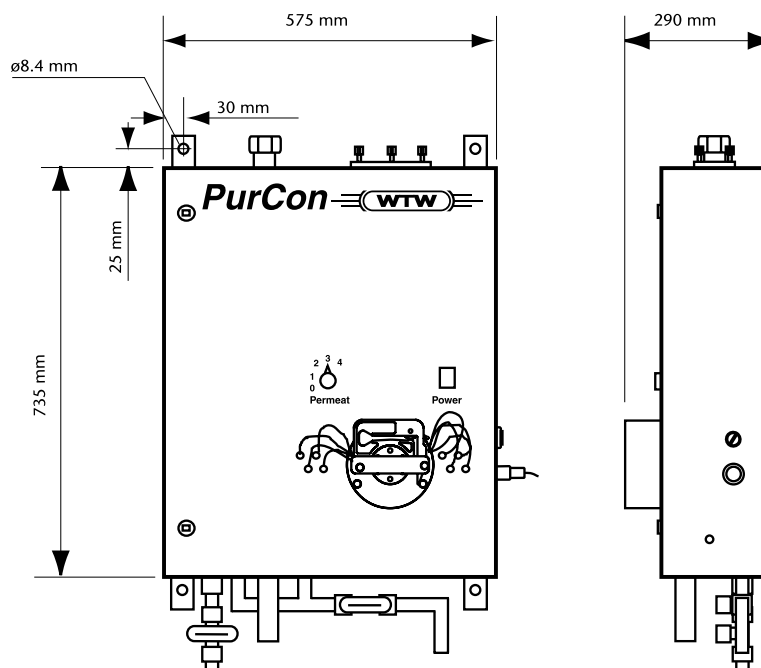
Model	Description	Order No.
PB-S/1	Sampler 230 V/50 Hz, with stainless steel housing, with 1 x 52.5 pt. (25 l) PE sample container	503225
PB-S/R12	Sampler 230 V/50 Hz, with stainless steel housing, with 12 x 6.1 pt. (2.9 l) PE sample container	503228
PB-S/R24	Sampler 230 V/50 Hz, with stainless steel housing, with 24 x 2.1 pt. (1 l) PE sample container	503230
VARDF/PB-S	Variable volume dosing unit (VAR) for sampling from 5 - 250 ml (additional price)	503392



Sample preparation system PurCon®

The perfect online sample preparation –
continuously, safe, low in maintenance.
Provides solid free and bacteria free
samples.

*We would like to inform you about the application range
on our website*



Technical Data

Model	PurCon®	
Permeate	Permeate transport	Continuously
	Permeate amount	Max. 3.6 l/h, can be setted in 4 steps
	Permeate quality	Free of solids and bacteria
Sample transportation	Minimum - Maximum	400 - 1500 l/h
Connections	Sample feed	Hose support, inner diameter 3/4"
	Sample retention	Pipe socket, inner diameter 50 mm, pressure less
	Container outlet for service	Hose support, inner diameter 3/4"
	Permeate outlet	Screw fitting Ø 1,54 mm
Electrical Connection Data	Power supply	230 V / 115 V AC (depends on version)
	Power consumption	Approx. 150 W (without pump)
	EMC	According to EN 61326 class B, appendix A, FCC class A
Mechanical Data, Protection Rating	Housing Height x Width x Depth	735 mm x 575 mm x 220 mm
	Housing Material	Stainless steel (V4A); IP 33
	Weight	Approx. 36 kg
Maintenance	Municipal application	Depends on operational site and load of the wastewater, typically 20 min / month
Ambient Conditions	Temperature	Storage: -25 ... 60 °C / Operation: 0 ... 40 °C
Certifications	CE	
Warranty	2 years on defects in quality according to § 10 terms of conditions	

Model	Description	Order No.
PurCon®/115	PurCon® sample preparation system, 115VAC/50 Hz.	810008
PurCon®/230	PurCon®, 230 VAC/60 Hz.	810000



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January 2020

Filtration Alyza IQ



High operational safety with the system for filtration and sample preparation directly at the edge of the sink – suitable for Alyza IQ

We would like to inform you about the application range on our website



- 1 Chain (scope of delivery: Basin holder for filtration M1.5)
- 2 Guide rail (scope of delivery: Attachment for filtration M1.5)
- 3 Height adjustable slide (scope of delivery: Suction line)
- 4 Intake line (scope of delivery: Suction line)
- 5 Sleeve tube (scope of delivery: Suction line)
- 6 Filter module (FM Case/PC) with filter plate (Filter/PC)

Technical Data

Model	FM/PC
Membrane area:	219.02 in ² (1413 cm ²)
Maximum operating temperature	113 °F (45 °C)
Materials	Housing: PVC Screws: Stainless steel

Model	Description	Order No.
FM/PC	Filter membrane module FM-Case/PC with premounted membrane. Suitable for Alyza IQ and P 700 IQ	821939
Filter/PC	Filter module for housing FM-Case/PC. Suitable for Alyza IQ and P 700 IQ	821940
FM-Case/PC	Housing for filter module Filter/PC. Suitable for Alyza IQ and P 700 IQ	821941
SH-5	Intake line with slide fo Alyza IQ, unheated, 5 m (16.4 ft)	822201
SH-10	Intake line with slide fo Alyza IQ, unheated, 10 m (32.8 ft)	822202
SH-15	Intake line with slide fo Alyza IQ, unheated, 15 m (49.2 ft)	822203
SH-20	Intake line with slide fo Alyza IQ, unheated, 20 m (65.6 ft)	822204
SH 120-5	Intake line with slide fo Alyza IQ, heated, 120 VAC, 5 m (16.4 ft)	822211
SH 120-10	Intake line with slide fo Alyza IQ, heated, 120 VAC, 10 m (32.8 ft)	822212
SH 120-15	Intake line with slide fo Alyza IQ, heated, 120 VAC, 15 m (49.2 ft)	822213
SH 120-20	Intake line with slide fo Alyza IQ, heated, 120 VAC, 20 m (65.6 ft)	822214
SH 240-5	Intake line with slide fo Alyza IQ, heated, 240 VAC, 5 m (16.4 ft)	822221
SH 240-10	Intake line with slide fo Alyza IQ, heated, 240 VAC, 10 m (32.8 ft)	822222
SH 240-15	Intake line with slide fo Alyza IQ, heated, 240 VAC, 15 m (49.2 ft)	822223
SH 240-20	Intake line with slide fo Alyza IQ, heated, 240 VAC, 20 m (65.6 ft)	822224
FM-B	Cleaning brush for filter membrane module	821968
FM-Adapter	Adapter for horizontal mounting of filter membrane module FM	821983
Filter-CL	Cleaning case for filter membranes	821984
M-EXT 1.5	Extension for attachment M 1.5. Included: Extension 1.5 m, chain, bracket	821985
M 1.5	Attachment for filtration. Included: Rail 1.5 m (4.9 ft), chain, bracket	821986



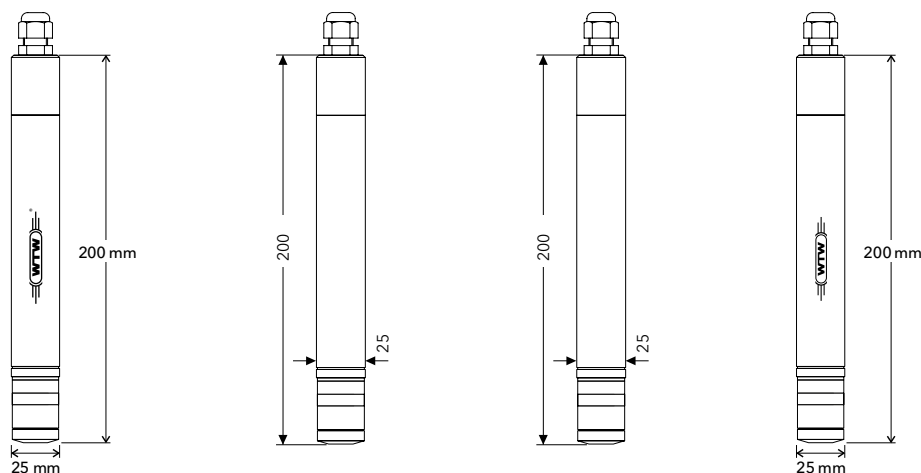
Analog chlorine sensors



For free and total chlorine

The electrochemical WTW chlorine sensors can be applied for measurements in drinking water or swimming pools. Connectable via MIQ/IDS module to the IQ SENSOR NET or directly to the controller CI 298.

We would like to inform you about the application range on our website



Model	FCML 412 N	FCML 412-M12-2	FCML 412-M12-20	TCML N
Measuring principle	Amperometric			Total chlorine
Measured value	Free chlorine			Total chlorine
Measuring range	0.01 ... 2.00 mg/l Cl ₂	0.005 ... 2.000 mg/l Cl ₂	0.05 ... 20.00 mg/l Cl ₂	0.01 ... 2.00 mg/l Cl ₂
Response time	t ₉₀ approx. 120 s			
Minimum flow rate	Recommended minimum flow rate in flow cell D 19: 15 l/h, or alternatively in flow cell D-CL: > 30 l/h			
Temperature measurement	0 ... 45 °C			
Temperature compensation	Automatically via integrated sensor			
pH range	4 ... 9			4 ... 12
Polarization time	Approx. 1 hour after new installation or change of electrolyte			
Calibration method	1-point-calibration (according to DPD method as reference)			
Pressure resistance	3 bar			
Electrical connection	2-wire-connection*	M12 plug**	M12 plug**	2-wire-connection*
Certifications	CE, UKCA			
Mechanical	Shaft: PVC Membrane cap: PVC Working electrode: Gold Reference electrode: Ag/AgCl Cable connection: Polyamid Protection rate: IP64			
Weight	Approx. 0.5 kg			
Warranty	½ year with intended use			

* for direct connection to the controller CL 298

** Sensor with M12 plug for connection to the IQ SENSOR NET, please order adapter ADA CI/IDS separately

Model	Description	Order No.
FCML 412 N	Chlorine electrode according to electrochemical principle, suitable for measurements of free chlorine in drinking water and swimming pools. Measuring range: 0-2 mg/l, pH range 4-9, independent from pH value. Please order cable separately.	201187
FCML 412-M12-2	Chlorine electrode according to electrochemical principle, measuring range: 0-2 mg/l, pH range 4-9, independent from pH value (please order adapter to connect with IQ SENSOR NET module MIQ/IDS separately)	201189
FCML 412-M12-20	Like FCML 412-M12-2, but with measuring range: 0-20 mg/l (please order adapter to connect with IQ SENSOR NET module MIQ/IDS separately)	201194
TCML N	Chlorine electrode according to electrochemical principle, suitable for measurements of total chlorine in drinking water and swimming pools. Measuring range: 0-2 mg/l. Please order cable separately.	201192

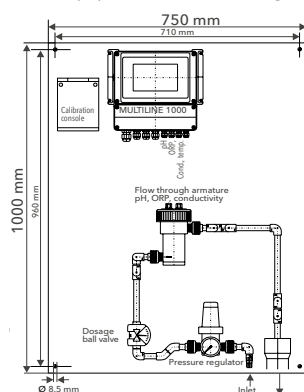


Drinking water panels

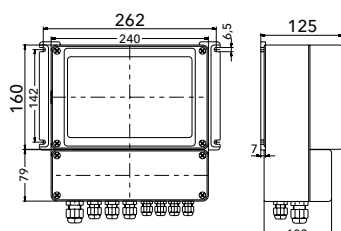
The premounted drinking water panels for multi-parameter or chlorine are user-friendly and deliver reliable measuring values

We would like to inform you about the application range on our website

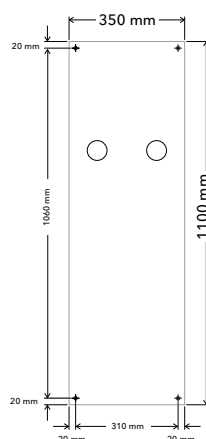
Basic equipment of the drinking water panel 8X-yyyyy



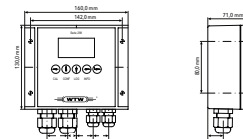
MULTILINE 1000



CL 298/P (Flow)



CL 298



Technical Data

Model	MULTILINE 1000 (Controller for panel 8X-yyyyy)	CL 298/P (Flow)
Measuring range	pH/ORP pH: 0.00...14.00; -2000 ... +2000 mV	
	Conductivity 0 ... 100 mS/cm, automatic range selection, adjustable	
	Chlorine 0.00 ... 2.00 mg/l	0 ... 2 mg/l
Resolution	pH/ORP pH: 0.01; 1 mV	
	Conductivity Depending on range 0.1 µS/cm ... 0.1 mS/cm	
	Chlorine 0.01 mg/l	0.01 mg/l
Flow measurement (optional)	Flow measurement via impeller	Flow detection (yes/no)
Temperature measurement*)		
	pH/ORP Additional TFK 5000 (Pt1000), -10 ... +100 °C	
	Conductivity Integrated (Pt 1000), -5 ... +80 °C	
	Chlorine Integrated (Pt 1000), 0 ... +45 °C	-10 ... 130 °C, Pt1000
Temperature compensation	Automatically via temperature measurement of the sensor or manual input	
Outputs	Relays 4	2
	Analog Outputs 4 x 0(4) ... 20 mA	
	Digital Modbus / RS485	
Display	Touch screen, 240 x 128 pixel, back-lighted	OLED (128 x 64 pixel)
Data logger	Integrated with real-time clock for 50,000 records	Integrated with real-time clock for 4,000 records
Electric supply	115 / 230 V AC; 48 ... 63 Hz	100 ... 240 V AC
Ambient temperature	-10 °C ... +55 °C (-14 ... 131 °F)	
Mechanics	Housing: Aluminium; IP 65 Panel: PVC rigid foam, white; 1000 x 750 x 13 mm (HxWxD)	Housing: Cast aluminium; IP 65 Panel: PVC rigid foam, white; 1100 x 350 x 13 mm (HxWxD)
Weight	Controller: 5 kg; Panel: 35 kg (incl. Turb 2000)	Controller: 1.4 kg; Panel: 10 kg
Warranty	Controllers: 3 years on defects in quality according to § 10 terms of conditions	

*) Please note: Tolerated sensor operation temperature may vary significantly.

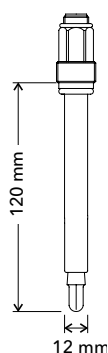
Model	Description	Order No.
MULTILINE 1000 230VAC	Multi-parameter monitor to connect up to any 16 sensors, power supply 230 VAC	480200
Drinking water panel	Ready-to-use panel to measure pH, ORP, Cond, Chlorine and Turbidity (Turb 2000); X: with or without flow; yyyy: coding dependent on parameter selection; details see price list or drinking water flyer	8X-yyyyy
CL 298/P - 230 VAC	Ready to operate measuring panel to measure free or total chlorine, analog monitor 2 current outputs and MODBUS interface, with automatic temperature compensation (Pt1000), 230 VAC	801260
CL 298/P Flow - 230 VAC	Like the CL 298/P, but with FlowControl to monitor the flow volume	801261

Drinking water sensors

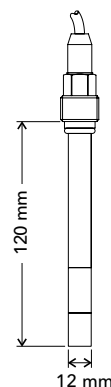
For measurement of pH/ORP, D.O. and conductivity at drinking water monitoring. Sensor can directly be connected to the series 298 or to the MULTILINE 1000.

We would like to inform you about the application range on our website

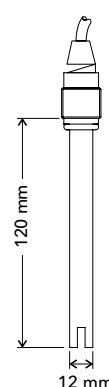
SenTix® ML 70 / ORP



Oxi ML 41



LR ML



Technical Data

Model	SenTix® ML 70	SenTix® ML ORP	Oxi ML 41	LR ML
Measuring principle	Potentiometric	Potentiometric	Amperometric	Conductometric
Measured value	pH	ORP	Dissolved Oxygen	Conductivity
Measuring Range	pH 0 ... 14		0 ... 20 mg/L O ₂ 0 ... 200 % air saturation	100 µS/cm ... 20 mS/cm
Cell constant	-	-	-	1.0 cm ⁻¹ ± 20 %
Response time (at 25 °C)	-	-	t ₉₀ (90 % of the final value display after) < 30 s	-
Temperature Measurement	-	-	Platinum measurement resistor Pt 1000	Platinum measurement resistor Pt 1000
Temperature Compensation	-	-	Automatic	Automatic
Application temperature	0 ... 80 °C	0 ... 80 °C	-5 ... 45 °C	-5 ... 80 °C
Pressure Resistance	Max. 6 bar	Max. 6 bar	Max. 3 bar	Max. 6 bar
Electrical Connection	S7 industrial screw plug connection; Screw-in connection PG 13.5 on the plug head connector for installation	S7 industrial screw plug connection; Screw-in connection PG 13.5 on the plug head connector for installation	1 m multi-wire, screened fixed cable without plug, twistable PG 13.5 screw coupling at the shaft	1 m multi-wire, screened fixed cable without plug, twistable PG 13.5 screw coupling at the shaft
Certifications	CE	CE	CE	CE
Mechanical	Shaft Glass Connection head: Plastic (ABS) Sealing: Silicone Protection Rate: IP68	Shaft Glass membrane Metal electrode: Platinum rounded end Ø 6 mm Connection head: Plastic (ABS) Sealing: Silicone Protection Rate: IP68	ABS, stainless steel 1.4571, polysulphone, silicone Protection Rate: IP64	Shaft Plastic (PSU) Electrodes: Special graphite Connection head: Plastic (ABS) Sealing: Silicone Protection Rate: IP64
Weight	Approx. 0.1 kg	Approx. 0.1 kg	Approx. 0.2 kg	Approx. 0.1 kg
Warranty	½ year on defects in quality according to § 10 terms of conditions			2 years on defects in quality according to § 10 terms of conditions

Model	Description	Order No.
SenTix® ML 70	pH combination electrode with gel electrolyte, S7 plug head, glass-shaft; PG 13.5 screw thread	104100
SenTix® ML ORP	ORP combination electrode with gel electrolyte, S7 plug head, glass-shaft; PG 13.5 screw thread	104150
Oxi ML 41	Electrochemical D.O. sensor with 1 m (3.3 ft) fixed cable for measuring and controlling oxygen in drinking water. Use with transmitter MULTILINE 1000 or Oxi 4000. Range: 0-20 mg/l or 0 - 200 %, temperature range: -5-45 °C, with temperature sensor Pt 1000; open cable ends.	201931
LR ML	Conductivity cell, with 1 m fixed cable, 2 graphite electrodes; - 5-80 °C; range 100 µS/cm - 20 mS/cm; temperature measurement with Pt 1000, PG 13.5 screw thread	301150

Chlorine 3017M

DPD Chlorine analyzer

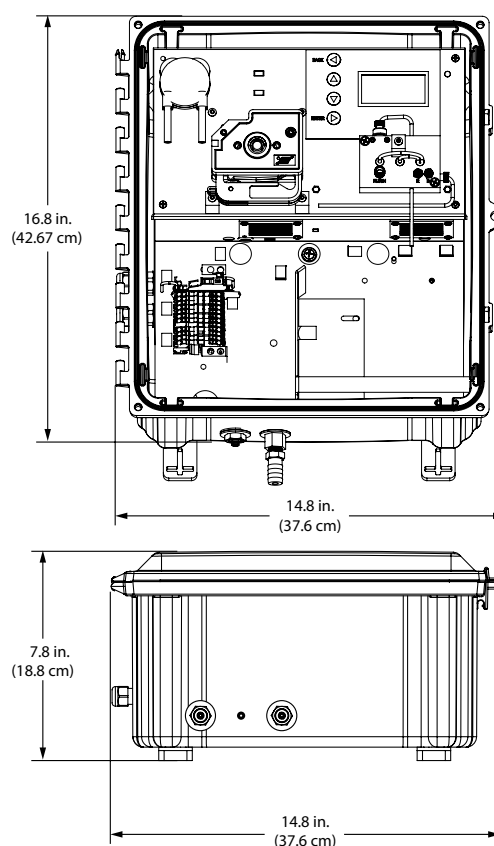


Technical Data

Model	Chlorine 3017M	
Measurement principle / method	Colorimetric with N, N-Diethyl-p-phenylenediamine (DPD)	
Measurement Range	0 ... 5 mg/l free or total chlorine, reagent dependent	
Resolution	0.01 mg/l	
Accuracy	±0.03 mg/l or ±5%, whichever is greater	
Limit of Detection	0.03 mg/l	
Measurement Interval	Programmable; 2.5 ... 60 minutes	
Sample Temperature	5 ... 45 °C (41 ... 113 °F)	
Sample Flow Rate to Sample Inlet Device	50 ... 1,000 ml/min when using Sample Inlet Device	
Inlet pressure	0.07 ... 1.40 bar (1 ... 20 psi) with Sample Inlet Device	
Reagent Consumption	~30 days per bottle at a 2.5 minute measurement interval	
Calibration	Factory calibrated, 1-point if required	
Display	2.8 x 6 cm backlit LCD	
Mounting	4 mounting struts bolted to back of unit	
Regulatory Compliance	US EPA regulations 40 CFR 141.74 and 40 CFR 136.3; Standard method 4500-CL-G; US EPA method 334.0; ISO method 7393-2	
Language	English, French, German, Italian, Spanish	
Reagent Storage Life	before hydration:	Buffer and indicator: 5 years DPD powder: 1 year
	after hydration	~30-40 days
Power	115-230 VAC, 50-60 Hz, 70 VA	
Relays	Two relays rated at 6A, 30 VDC	
Analog Output	One 4-20 mA configurable output	
Digital Output	RS-485 Modbus RTU	
Light Source	Class 1 LED; wavelength centered at 525 nm	
Light Path Length	>1 cm	
Environmental conditions	Storage Temperature Range:	5 ... 70 °C (41 ... 158 °F)
	Operating Temperature Range:	5 ... 55 °C (41 ... 131 °F)
	Relative Humidity:	90% at 40 °C non-condensing
Certification	CE, cETLus	
Weight	8 kg (<18 lbs)	
Mechanics	Enclosure:	Polycarbonate
	Flow cell Assembly:	CPVC
	Sample pump assembly:	PA12 is Polyamide12 and POM is Polyacetal
	Reagent pump assembly:	Cyanoacrylate body and Stainless steel rollers
	Fan assembly:	Acrylonitrile Butadiene Styrene (ABS)
	Terminal block:	Polyamide 66 (PA 66)
	Housing:	Designed for IP 66/NEMA 4X
Warranty	2 year warranty	

WTW's 3017M DPD chlorine analyzer continuously monitors free or total chlorine in drinking water or wastewater applications using the ISO and EPA approved DPD colorimetric method.

We would like to inform you about the application range on our website

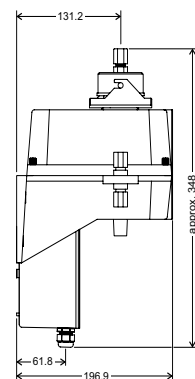
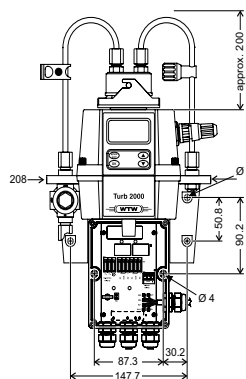


Model	Description	Order No.
Chlorine 3017M	DPD Chlorine Analyzer	860151
CLDF-Kit 30	Reagent kit for Free Chlorine	860160
CLDT-Kit 30	Reagent kit for Total Chlorine	860165
RT-Kit	Replacement Tubing kit for the Chlorine 3017M	860181
FC-Kit	Glass Flow cell with O-Rings 3017M	860186
RC-Kit	Reagent caps, 2 each, 3017M	860187
SID-Kit	Sample Inlet Device Kit	860188
RF	Replacement Filter for the Chlorine 3017M	860189

Turb PLUS 2000 Turbidity Analyzer

WTW's Turb PLUS 2000 continuously monitors turbidity in drinking water using DIN EN ISO 7027 or EPA 180.1 compliant method. Equipped with ultrasonic cleaning.

We would like to inform you about the application range on our website



Technical Data

Model	Turb PLUS 2020		Turb PLUS 2120
Measurement principle	Scattered light measurement white light, nephelometric measurement		Scattered light measurement infrared light, nephelometric measurement
Measurement Range	Factory setting: 0 ... 100 NTU; optional measuring ranges 0 ... 10 and 0 ... 1000 NTU (loaded on USB)		
Resolution	Down to 0.0001 NTU		
Accuracy	±2 % of reading or ±0.02 NTU below 40 NTU whichever is greater (0-100 and 0-1000 ranges) ±5 % of reading above 40 NTU (0-100 and 0-1000 NTU ranges) ±2 % of reading or ±0.02 NTU (0-10 NTU range)		
Limit of Detection	0.02 NTU		
Response time	Adjustable (1 ... 60 readings)		
Sample Temperature	1 °C ... 50 °C (34 °F ... 122 °F)		
Sample Flow Rate	100 ml/min. ... 1.5 liter/min. (0.026 ... 0.40 Gal/min)		
Maximum Water Pressure	Integral pressure regulator rated 7 bar (101.5 PSI)		
Cleaning	Ultrasonic cleaning		
Calibration	Factory calibrated to 0 ... 100 NTU, recalibration required every three months and after change of measuring range		
Display	Multi-Line Liquid Crystal Backlit Display		
Mounting	Wall mounting with 6 screws		
Regulatory Compliance	Compliant to U.S. EPA 180.1		Compliant to DIN EN ISO 7027
Power	100-240 V AC, 47-63 Hz, 80 VA		
Relays	Two Programmable, 120-240 V AC 2A Form C Relay		
Analog Output	One powered 4-20 mA, 1000 W drive		
Digital Output	Bi-directional RS-485, Modbus RTU		
Environmental conditions	Storage Temperature Range: 1 °C ... 50 °C (34 °F ... 122 °F) Operating Temperature Range: 1 °C ... 50 °C (34 °F ... 122 °F) Relative Humidity: Up to 95 % (non-condensing) Not recommended for outdoor use. Altitude up to 2000 meters.		
Certification	CE, cETLus CE Approved, LC listed to UL 61010-1 3rd Edition: 2012 LC: Certified to CSA 22.2 No.61010-1-12: 2012		
Mechanics	Wetted Materials: Nylon, Borosilicate Glass, Silicone, Polypropylene, Stainless Steel, Viton, Acety Housing: ABS (Double Insulated, Pollution Degree 2, Overvoltage Category II), IP66		
Weight	2.8 kg (6.2 lbs.)		
Warranty	2 years on defects in quality according to § 10 terms of conditions		

Model	Description	Order No.
Turb PLUS 2020	Online turbidity meter, with white light and integrated bubble trap; nephelometric measurement specified according to US EPA 180.1, with ultrasonic cleaning 110-240 VAC	600026
Turb PLUS 2120	Online turbidity meter, with infrared light and integrated bubble trap; nephelometric measurement specified according to DIN EN ISO 7027, with ultrasonic cleaning 110-240 VAC	600036
Turb PLUS 2120 Set	Turb PLUS 2120 including external bubble trap	600037
BC-Turb/DW	External bubble trap	600041
Kal Kit Turb/DW	Calibration standard set with standards 0.02, 10 and 1000 NTU, cleaning tissues and designation rings	600052
Kal Kit Turb PLUS 2000	Calibration standard set with standards 0.02, 10 and 100 NTU, cleaning tissues and designation rings	600054
Kal Kit Turb 2110/DW	Calibration standard set with standards 0.02, 1 and 10 NTU, cleaning tissues and designation rings	600056



Drinking water panel

Pre-assembled drinking water panel for the monitoring of turbidity, pH, conductivity, ORP, D.O. and free chlorine.

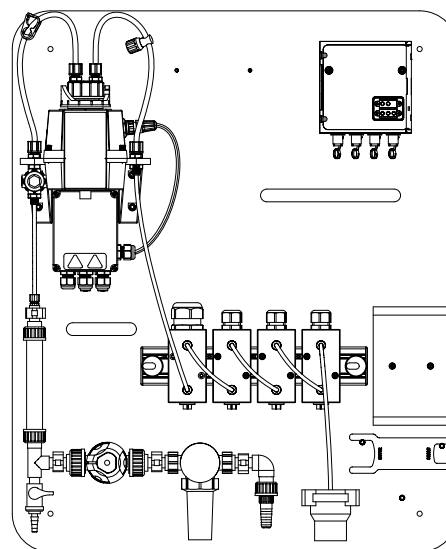
We would like to inform you about the application range on our website



Sensor		Measuring range	Accuracy	Resolution
FCML 412-M12-2	CI	0.005 ... 2.000 mg/l	< 1 % up to 16 mg/l	0.001 mg/l
FCML 412 M12-20		0.05 ... 20.00 mg/l		0.01 mg/l
SenTix® 945 (-P)	pH	0.000 ... 14.000 pH	pH: ± 0.004; (IDS measurement electronics) U [mV]: ± 0.2; T [°C]: ± 0.1	0.001 pH; 0.1 mV
SensoLyt® 900-ORP-P	ORP	-1250.0 ... +1250.0 mV	U [mV]: ± 0.2 T [°C]: ± 0.1	0.1 mV
TetraCon® 925 (-P)	Cond	α: 0.0 µS/cm ... 2000 mS/cm	± 0.5 % from measured value; T [°C]: ± 0.1	α: Up to 0.1 µS/cm or until 0.01 mS/cm
		SAL: 0.0 ... 70.0 TDS: 0 mg/l ... 199.9 g/l		SAL: 0.1 TDS: Up to 1 mg/l or until 0.01 g/l
LR 925/01(-P)		0.01 ... 199.9 µS/cm	± 0.5 % from measured value	Up to 0.01 µS/cm
Turb PLUS 2000	Turb	Factory setting: 0 ... 100 NTU; optional: 0 ... 10 und 0 ... 1000 NTU	Up to ± 2 % of the measured value or ± 0.02 NTU	Up to 0.0001 NTU
FDO® 925(-P) at 20 °C (68 °F)	O ₂	0.00 ... 20.00 mg/l 0.0 ... 200.0 %	± 1.5 %	0.01 mg/l 0.1 %

Panel / Measuring system

Outputs	Relais:	Number selectable
	Power outputs:	(mA) Number selectable
	Digital:	Profinet, Profibus, Modbus RTU, Modbus TCP, Ethernet/IP
Data logger		Data memory for up to 525,600 data sets
USB interface		Included as standard on all panels
Electrical power supply		IQ SENSOR NET: 100 ... 240 VAC (50/60 Hz), alternative 24 V AC/DC Turbidity analyzer: 100 ... 240 VAC (47-63 Hz), 80 VA
Sample composition		5 ... 45 °C (41 ... 113 °F); inlet pressure max. 6 bar; salinity or chloride: 500 mg/l
Mechanics		Panel: PVC rigid foam; IQ SENSOR NET: Polycarbonate with 20 % glass fibre; Turbidity analyzer: ABS Flow-through cells/piping: PVC; Tubing: PU Dimensions 850 x 700 x 225 mm (H x W x maximum D)
Weight		Without/with Turbidity analyzer approx. 10 kg/ approx. 12 kg
Certifications		CE, UKCA
Warranty		Varies, depending on the sensor, transducer, analyzer, etc.



Components	Options	Order code					
Drinking water panel	with pressure reducer, valve, tap, flow indicator, on water-repellent panel	8C-	0				
Turbidity Analyzer	without turbidity analyzer		1				
	acc. to ISO EN DIN 7027 (Infra red)		2				
	acc. to EPA 180.1 (white light)			0			
Sensors (max. 4 sensors in total)	no chlorine sensor			1			
	free chlorine			2			
	Number of other parameters (pH, ORP, Cond, O ₂)			3			
				4			
					2		
MIQ modules	MIQ/IDS2				4		
	MIQ/IDS4						
Not every combination is available. Sensors and IQ SENSOR NET components must be ordered separately.							
Your Ordner No.	If you have any questions, please contact our customer service.	8C-					0



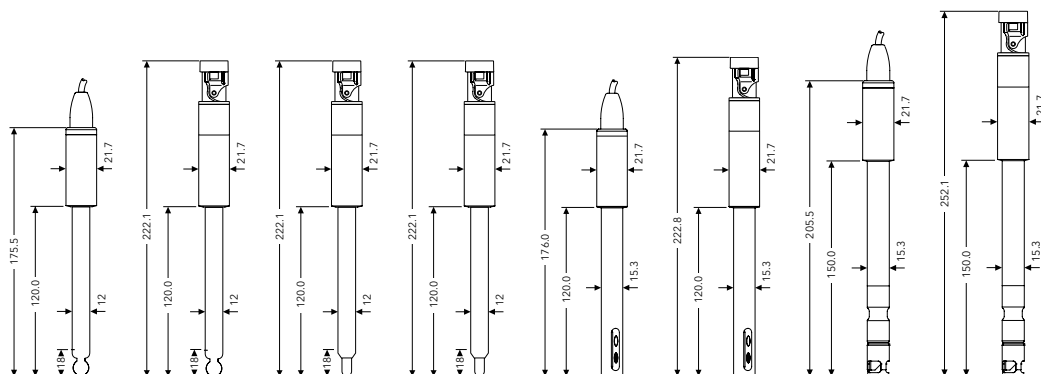


IDS Sensors for the drinking water panel



Intelligent, digital sensors based on the proven electrochemical measuring methods of the WTW brand – in combination with the pre-configured panels, the suitable solution for continuous drinking water monitoring.

We would like to inform you about the application range on our website



	SenTix®		SensoLyt®		TetraCon®		FDO®	
Models	945	945-P	900-P	ORP 900-P	925	925-P	925	925-P
Measuring method	Potentiometric				Conductometric (4-electrode cell)		Optical	
Measuring parameter	pH value			ORP	Conductivity		Dissolved oxygen	
Measuring range	0.000 ... 14.000 pH		0.000 ... 12.000 pH	-1250.0 ... +1250.0 mV	κ: 0.0 μS/cm ... 2000 mS/cm SAL: 0.0 ... 70.0 TDS: 0 mg/l ... 199.9 g/l		0.00 ... 20.00 mg/l 0.0 ... 200.0 %	
Resolution	0.001 pH; 0.1 mV			0.1 mV	κ: up to 0.1 μS/cm or 0.01 mS/cm; SAL: 0.1 TDS: up to 1 mg/l or 0.01 g/l		0.01 mg/l 0.1 %	
Accuracy	±0.004 pH; ±0.2 mV (IDS measuring technology)			±0.2 mV	±0.5 % of measured value		±1.5 %	
Temperature sensor	integrated, NTC (30 KΩ)							
Electrical connection	Fixed cable	Plug head*			Fixed cable	Plug head*	Fixed cable	Plug head*
Certifications	CE, UKCA							
Mechanical	Diaphragm: 3x ceramic Electrode material: – Shaft material: Glass		Hole – Glass	Hole Platinum wire Glass	– Graphite Epoxy		– – POM, stainless steel	
Shaft length (mm)	120						150	
Shaft diameter (mm)	12				15.3		15.3	
Warranty for continuous measurement with the MIQ/IDS	½ year				1 year		1 year, cap: ½ year	

* Sensor with waterproof IDS plug head, please order cable AS/IDS-1.5 separately

Model	Description	Order No.
SenTix® 945	Low-maintenance, fast response pH electrode with a gel reference system and three ceramic junctions, 1.5 m cable	103743
SenTix® 945-P	Like SenTix® 945, but with IDS plug head (please order cable separately)	103764
SensoLyt® 900-P	Robust pH electrode with polymer electrolyte and glass shaft, with IDS plug head (please order cable separately)	103748
SensoLyt® ORP 900-P	Combined ORP electrode with polymer electrolyte and glass shaft, KCl 3 mol/l reference electrolyte, with IDS plug head (please order cable separately)	103749
TetraCon® 925	4-electrode conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 cm ⁻¹ , 1.5 m cable	301710
TetraCon® 925-P	Like TetraCon® 925, but with IDS plug head (please order cable separately)	301716
FDO® 925	Optical DO sensor with fast responding bevelled membrane, no flow required, 1.5 m cable	201300
FDO® 925-P	Like FDO® 925, but with IDS plug head (please order cable separately)	201306
AS/IDS-1.5	Connection cable for IDS sensors with plug head to MIQ/IDS modules, length 1.5 m	903850



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Xylem | 'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

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