

Data sheets



Controller and Modules

IQ SENSOR NET Terminal/Controller
IQ SENSOR NET Controller MIQ/MC3
IQ SENSOR NET MIQ modules for power supply
IQ SENSOR NET MIQ modules for outputs, inputs and communication
IQ SENSOR NET MIQ modules for system expansion
IQ SENSOR NET MIQ module for compressed air cleaning
IQ SENSOR NET DIQ 282
IQ SENSOR NET DIQ 284
IQ SENSOR NET DIQ 284 IQ SENSOR NET System 281
IQ SENSOR NET DIQ modules
IQ SENSOR NET Cable



Digital electro-chemical IQ sensors for dissolved oxygen TriOxmatic*
Digital optical IQ sensors for dissolved oxygen FDO*
Digital IQ pH/ORP armatures Sensolyt*
Digital IQ pH/ORP armatures Sensolyt*
Digital IQ conductivity measuring cells TetraCon*
Digital turbidity sensors VisoTurb*
Digital suspended solids sensors ViSolid*
Digital ISE combination sensor VARiON* for ammonium and nitrate
Digital ISE sensor Ammolyt* for ammonium
Digital ISE sensor NitraLyt* for nitrate
Digital ISE sensor NitraLyt* for nitrate
Digital optical UV VIS spectral probe NitraVis* for nitrate and suspended solids
Digital optical sensors NiCaVis* for nitrate, carbon and suspended solids
Digital optical UV spectral probe NitraVis* NI for nitrate and nitrite
Digital optical UV spectral probe NiCaVis* NI for nitrate and carbon
Optical nitrate sensor UV 70x IQ NOx
Digital optical UV-VIS spectral sensors CarboVis*
Optical SAC and UVT sensor UV 70x IQ SAC
Digital IQ sensor IFL 700 IQ to determine the sludge level
Ammonium Analyzer Alyza IQ
Orthophosphate Analyzer Alyza IQ
NiCaVis* optical sensors for color, carbon, TSS and nitrate

Analog Controllers and Sensors (pH/ORP, Cond, O₂)

Analog controllers
Analog electrochemical oxygen sensors TriOxmatic®
Analog pH/ORP armature SensoLyt®
Analog pH/ORP electrodes (SensoLyt® series)
Analog pH/ORP electrodes (ProcessLine®series)

ATEX Devices

Isolated amplifier for EX area Analog conductivity measuring cells TetraCon® for EX area Analog pH/ORP armature SensoLyt® for EX area

Portable Samplers PB-M Samplers for wall mounting

Sample preparation system PurCon® Filtration Alyza IQ

Drinking Water

Ariatog Chibrine School Drinking water sensors Chlorine 3017M DPD Chlorine analyzer Turb PLUS 2000 Turbidity Analyzer

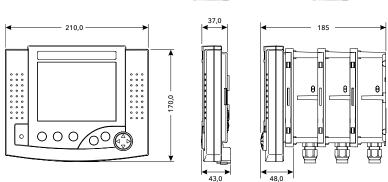


IQ Sensor Net Terminal/Controller

MIQ/TC 2020 3G - The heart of every IQ SENSOR NET system 2020, a multiparameter 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



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	e area: 4.49 x 3.39 in. (114 x 86 mm), black/white, backlit		
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 Canadia	n 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	
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 wit 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

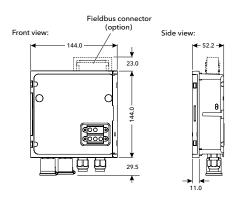


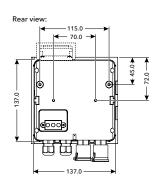
IQ SENSOR NET Controller MIQ/MC3



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

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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 (configurated 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 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)		
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; 2×0.75 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)		
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	

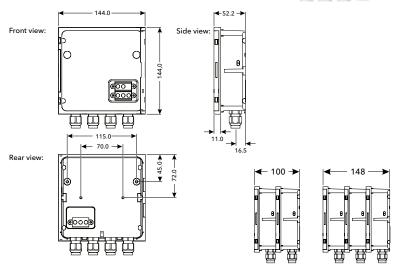


IQ SENSOR NET MIQ modules for power supply



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



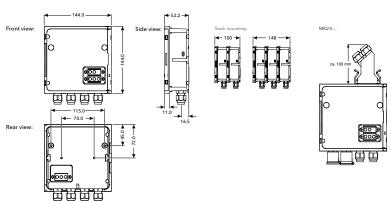
Models	MIQ module MIQ/PS MIQ module MIQ/24V			
MIQ Module Coupling at Front	Combined mechanical and electrical connection for rapid docking and removal of the MIQ/TC 2020 3G Terminal/Controller (configurated as Terminal) and for docking additional modules			
MIQ Module Coupling at Rear	Combined mechanical 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 of for connecting sensors - as an input/output or for looping through/branching	'		
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 connect (CC-Box), respectively with adapters CC-PM	tions). Conduits need to be connected with flexible adapters		
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/PS	Module IQ / power supply for voltage supply with wide ran			
MIQ/24V	Module IQ / 24 V for voltage supply with 24 VAC or 24 VDC input voltage 4800			



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

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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 (configurated 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 glan 1 USB	ds M 16 x 1.5 and	4 screw cable glan	ds 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	- for connectir	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 tempera	ature: -4 °F 131 °F	(-20 °C +55 °C);	Storage temperature	e: -13 °F 149 °F	(-25 °C +65 °C)	
Housing Material	PC - 20 % GF (poly	carbonate with 20 %	6 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 (conform	ns with relevant UL a	nd Canadian standar	ds), 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; 2×0.75 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/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

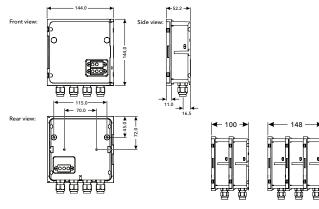


IQ Sensor Net MIQ modules for system expansion



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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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 (configurated 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	IP 66	IP 67	
	corresponding to NEMA 4X (not for direct conduit connadapters (CC-Box), respectively with adapters CC-PM	ections). Conduits need to be connected with flex	ible
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; 2×0.75 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)		
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	Ore	der No
MIQ/JB	Modul IQ/Junction Box, for system branching, for system 2020 and 282/284, 4 free IQ Sensor Net connections		
MIQ/JBR	Modul IQ / Junction Box Repeater, for system branching	, for system 2020 and 282/284, with active	480010

Model		
MIQ/JB		
	connections	
MIQ/JBR	Modul IQ / Junction Box Repeater, for system branching, for system 2020 and 282/284, with active	480010
	signal preparation	
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

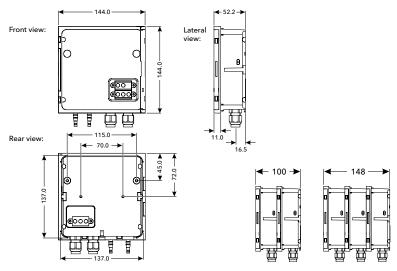


IQ SENSOR NET MIQ module for compressed air cleaning



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

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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 (configurated 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 \times H \times 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; $2 \times 0.75 \text{ mm}^2$; 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	480018
	air cleaning (relay and compressed air supply, external)	

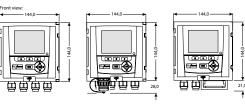


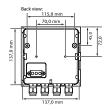
IQ SENSOR NET DIQ 282



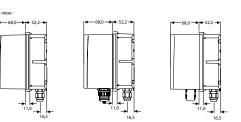
Controller for small and mid-sized wastewater treatment plants including USBinterface and internal data logger- up to 2 sensors, all parameters, available anytime

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Model	Controller DIQ/S 282		
Max. number of sensors	2		
IQ SENSOR NET connections	DIQ/S 282-CR3(-E) (/24V) 1; all others 2		
Outputs	3 x (0) 4 20 mA, 3 x Relays, Ethernet interface for remote access, Ethernet fieldbusses PROFIBUS or Modbus RTU (options see scopes of delivery)		
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		
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 (expansible 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		
$\textbf{Dimensions} \; (W \times H \times D)$	144 x 144 x 125 mm (5.67 x 5.67 x 4.92 in.)		
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; $2 \times 0.75 \text{ mm}^2$; 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		

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

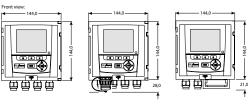


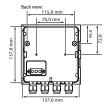
IQ SENSOR NET DIQ 284

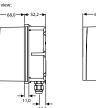


Controller for small and mid-sized wastewater treatment plants including USBinterface and internal data logger- up to 4 sensors, all parameters, available anytime

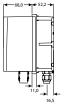
We would like to inform you about the application range on our website

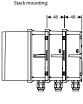












Model	Controller DIQ/S 284				
Max. number of sensors	4				
IQ SENSOR NET connections	DIQ/S 284-CR6(-E) (/24V) 3; all others 2				
Outputs	$6 \times (0) 4 \dots 20$ mA, $6 \times Relays$, Ethernet interface for remote access, Ethernet fieldbusses PROFIBUS or Modbus RTU (options see scopes of delivery)				
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				
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 (expansible 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				
$\overline{\textbf{Dimensions}(WxHxD)}$	144 x 144 x 173 mm (5.67 x 5.67 x 6.81 in.)				
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; 2×0.75 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				

470100
472130
472131
472132
C 472133
472134
/A



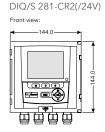
IQ Sensor Net System 281

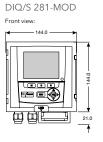


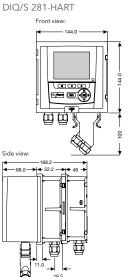


The System 281 - digital and economic single parameter measuring unit of the IQ Sensor Net. For pH/ORP, O₂, turbidity, TSS, conductivity or sludge level with the latest IQ SENSOR NET technology.

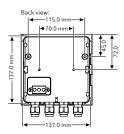
We would like to inform you about the application range on our website

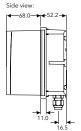














Controller	DIQ/S 281-CR2	DIQ/S 281-CR2/24V	DIQ/S 281-MOD	DIQ/S 281-HART	
Max. number of sensors	1				
IQ SENSOR NET connections	1				
Communication	2 x (0) 4 20 mA, 2 x Relays		MODBUS RTU, 2 x Relays	HART, 2 x Relays	
Display	Graphic TFT Display; Re	solution: 320 x 240 pixel; back	lit		
Control Functions/ 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 N	DIQ/JB, DIQ/CHV and MIQ/WL PS SET			
Cable Feeds	4 screw cable glands M	4 screw cable glands M 16 x 1.5 (expansible to M 20 if required)			
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				
USB interface	USB-A for software updates				
Ambient Conditions	Operating temperature:	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 (polycarbo	PC - 20 % GF (polycarbonate with 20 % fiberglass)			
Protection Rating	IP 67 / corresponding to	NEMA 4X (not for direct cond	uit connections).		
Weight	Approx. 1,2 kg (2.6 pou	nds)			
Certifications	CE				
Electromagnetic Compatibility	EN 61326-1, Class A; FC	CC 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 2×0.75 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 shie and inner conductor (no damage); comprehensive EMC shield control; Cable topology within the IQ Sensor system as required, e.g. in the form of a line, tree, star; total cable length max. 250 m (273 yds)			pology within the IQ SENSOR NET	
Warranty	3 years for defects of qu	ıality			

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



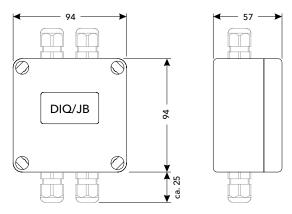
IQ SENSOR NET DIQ modules



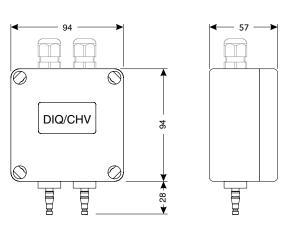
Modules for the flexible expansion of digital IQ SENSOR NET systems 181, 281 and 282/284 by additional measuring points or functions - compact design

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

DIQ/JB



DIQ/CHV



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 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. 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

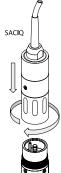
One connection for all IQ sensors via the universal **SACIQ sensor cable**, including a version for corrosive media.

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







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. $(8.0 \pm 0.3 \text{ mm})$	0.31 ± 0.01 in. $(8.0 \pm 0.3 \text{ mm})$				
Cores	2-wire with shield; 2 x 0.001 in.² (0.75 mm²); Filler cord for easy connection of shield: 0.001 in.² (0.75 mm²); pressure resistant to 10 bar					
Core colors	Red, green					
Shield	Braid of tinned copper wires, optical co	overage min. 95 %				
Material Material	Wire insulation: NDPE Sheath: PUR (flame retardant) UV resistent UUG: double sheath) Wire insulation: NDPE Sheath: PUR (flame retardant) UV resistent UV resistent Sensorhead: Stainless steel, POM Sensorhead: Titanium					
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 S	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 SNC	IQ (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



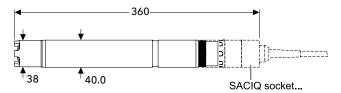
Digital electro-chemical IQ sensors for dissolved oxygen TriOxmatic®



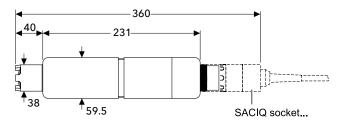
Reliable and proven digital electro-chemical oxygen sensors with 3 electrode system (ECDO) for precise and accurate measurements

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

TriOxmatic® 700 IQ



TriOxmatic® 700 IQ SW



Model	TriOxmatic® 700 IQ	TriOxmatic® 700 IQ SW*	TriOxmatic® 701 IQ	TriOxmatic® 702 IQ
Measuring method	Amperometric			
Measuring range (25 °C) $\rm O_2$ concentration $\rm O_2$ saturation			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%
Resolution O_2 concentration O_2 saturation	Ŭ		0.01 mg/l 0.1 mg/l 0.1% 1%	0.001 mg/l 0.01 mg/l 0.1%
Accuracy	Depending on calibration ±0.1 mg/l or 1 % (at 0.0 60.0 mg/l)		Depending on calibration ± 0.1 mg/l or 1 % (at 0.0 20.0 mg/l)	Depending on calibration ±0.01 mg/l or 1 % (at 0.0 2000 µg/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	on cable)		
Ambient Conditions	Operating temperature: 32 °	F 140 °F (0 °C +60 °C); Sto	orage temperature: 23 °F 14	9 °F (-5 °C +65 °C)
Electrical connections	2-wire shield cable with quicl	k 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



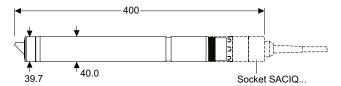
Digital optical IQ sensors for dissolved oxygen FDO®



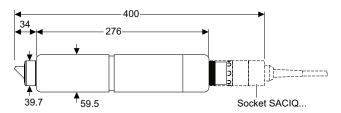
Calibration-free, reliable, DIN compliant - the optical FDO® oxygen sensors for the IQ Sensor Net to regulate biological cleaning steps

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

FDO® 700 IQ, FDO® 701 IQ



FDO® 700 IQ SW, FDO® 701 IQ SW



Technical Data

Modele	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 authorized use		orking life of 6 months with	
Measuring range (25 °C)				
O ₂ concentration	(0 20.00 ppm)			
O ₂ saturation	0 200.0 %			
Resolution				
O ₂ concentration	9			
O ₂ saturation	(0.01 ppm) 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_{95} : < 80 s			
Minimum flow rate	No flow required			
SensCheck	Monitoring of membr	ane function		
Temp. measurement	Integrated NTC, 23 °F 140 °F (-5 °C +60 °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) 23 °F 104 °F (-5 °C +40 °C) -13 °F 122 °F (-25 °C +50 °C) -13 °F 104 °F (-25 °C +40 °C)			
Electrical connections	2-wire shield cable wi	th quick fastener to sensor		

* SW: Sensor as sea	water model (v	vith plastic ar	ming (POM))

EN 61326, Class B, FCC Class A;

CE, cETL, ETL

1.98 lb (900 g)

protection type IP 68

2 years for defects in quality

Intended for indispensable operation

sensor body: VA stainless steel 1.4571

Sensor cap, fixation: POM, PVC, silicone, PMMA

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

1.98 lb (900 g)

3.31 lb (1.5 kg)



Electromagnetic Compatibility

Weight (without cable)

Certifications

Mechanical

Warranty

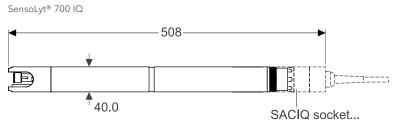
3.31 lb (1.5 kg)

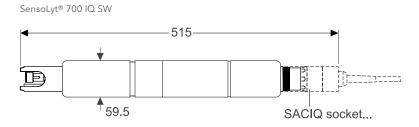
Digital IQ pH/ORP armatures SensoLyt®



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

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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

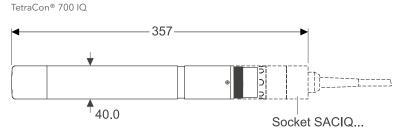


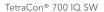
Digital IQ conductivity measuring cells TetraCon®

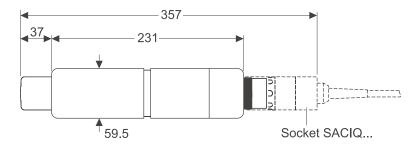


Digital 4 electrode conductivity measuring cell with flow-free operation, especially with high conductivity

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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 $^\circ$	°C, with non-linear temp. comp. (acc. DIN 38404))
Cell Constants	$K = 0.917 \text{ cm}^{-1}, \pm 1.5\%$ (in free solution) $K = 0.933 \text{ cm}^{-1}$, TetraCon® 700 IQ with EBST 700-DU/N flow assembly	$K = 0.917 \text{ cm}^{-1}, \pm 1.5\% \text{ (in free solution)}$
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	302500
	separately)	
TetraCon® 700 IQ SW	Like TertaCon® 700 IQ, but as a sea water model	302501



Digital turbidity sensors VisoTurb®



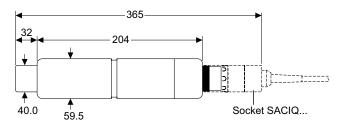
Optical turbidity sensors with nephelometric principle according to EN ISO 7027 for the in-situ use in water/ wastewater incl. ultrasonic cleaning system

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	
2 2	0 4000 FNU 0.1 4000 mg/l SiO ₂ 0.0001 400 g/l TS	
$mg/l SiO_2$; ppm SiO_2	Automatic according to measuring range 0.001 1 FNU 0.001 mg/l 0.01 g/l 0.001 mg/l 1 g/l	
Accuracy	Depends on application Process variation coefficient according to DIN 38402 part 5 Repeatability according to DIN ISO 5725 or DIN 1319 < 0.0	
$mg/l SiO_2$; ppm SiO_2	Factory calibration with formazine Factory calibration with SiO ₂ Calibration by user, (TSS regulations in compliance with DIN	J 38414)
Cleaning System	Ultrasound 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) (overhe Storage temperature: 23 149 °F (-5 +65 °C)	ating protection);
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 mod	lel (with plastic arming (POM))	



VisoTurb® 700 IQ

VisoTurb® 700 IQ SW

Model

Xylem Analytics Germany Sales GmbH & Co. KG, WTW · Am Achalaich 11 · 82362 Weilheim · Germany Phone: +49 881 1830 · Fax: +49 881 183-420 · Info.WTW@xylem.com · www.xylemanalytics.com

Like VisoTurb® 700 IQ, but as a sea water model

Digital turbidity sensor with integrated ultrasonic cleaning (please order cable separately)

Order No.

600010

600011

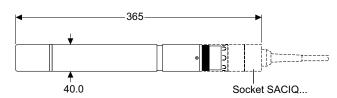
Digital suspended solids sensors ViSolid®



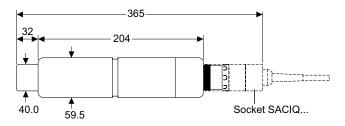
Optical sensors for the in-situ use to measure suspended solids via scattered light and direct back-scattering with ultrasonic cleaning system

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

ViSolid® 700 IQ



ViSolid® 700 IQ SW



Model	ViSolid® 700 IQ	ViSolid® 700 IQ SW*
Measuring method	Procedure for measuring scattered light	
% SiO ₂ g/I TSS	0 300 g/l SiO ₂ 0 30% SiO ² 0 1000 g/l TSS 0 100% TSS	
% SiO ₂ g/l TSS	Automatic according to measuring range 0.1 mg/l 1 g/l Automatic according to measuring range 0.001 % 0.01 % Automatic according to measuring range 0.1 mg/l 1 g/l Automatic according to measuring range 0.001 % 0.1 %	
	Depends on application and/or user calibration Process variation coefficient according to DIN 38402 part 51 Process variation coefficient according to DIN 38402 part 51	
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 mod	lel (with plastic arming (POM))	

^{*} 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

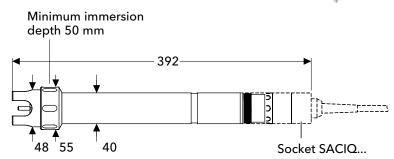


Digital ISE combination sensor VARiON® for ammonium and nitrate



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



Model	VARiON®Plus	
	Ammonium Measurement	Nitrate Measurement
Measuring method	Potentiometric	
Maximum Configuration	Common reference electrode, two measuring electro	des, one compensation electrode
Integrable Electrodes: Reference Electrode	VARiON®Plus Ref	
Measuring Electrode Compensation Electrode	VARiON®Plus NH ₄ VARiON®Plus K	VARiON®Plus NO ₃ VARiON®Plus Cl
Measuring range/ Resolution Compensation Ranges	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 K+: 0.1 1,000 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 CI-: 0.1 1,000 mg/l / 0,1 mg/l
Measuring Accuracy in	± 5 % of measured value ± 0.2 mg/l in standard solu	
laboratory 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 cab	le, 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	

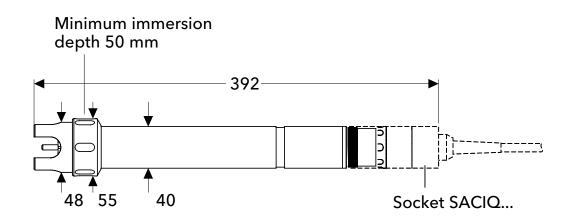
Model	Description	Order No.
VARiON®Plus 700 IQ	Digital sensor for the ion selective measurement of ammonium and nitrate, without electrodes (Please order the sensor cable SACIQ separately)	107040
VARiON®Plus A comp SET NH ₄	VARiON®Plus 700 IQ, reference electrode VARiON® Ref, ammonium measuring electrode VARiON®Plus NH ₄ and compensation electrode VARiON®Plus K (potassium) (Please order the sensor cable SACIQ separately)	107060
VARiON®Plus N comp SET NO ₃	VARiON®Plus 700 IQ, VARiON® Ref, VARiON®Plus NO ₃ and VARiON®Plus CI (chloride) (Please order the sensor cable SACIQ separately)	107062
VARiON®Plus AN/A comp SET NH ₄ & NO ₃	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 NH ₄ & NO ₃	VARiON®Plus 700 IQ, VARiON®Ref, VARiON®Plus NH ₄ and VARiON®Plus NO ₃ , VARiON®Plus CI (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 $2,000 \text{ mg/l NH}_4\text{-N}$

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



Technical Data

Model	AmmoLyt* Plus	
Measuring method	Potentiometirc	
Appropriate Electrode	Reference electrode VARiON® Ref, Measuring electrode VARiON® Plus NO ₃ , Compensation electrode VARiON® Plus Cl	
Measuring range/ Resolution Compensation Range	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 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 Protective cup: POM Temperature sensor: V4A stainless steel 1.4571 Protection rating: IP 68 (0.2 bar, with installed electrodes) Electrode connector: POM	
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	107072
	SACIQ separately)	



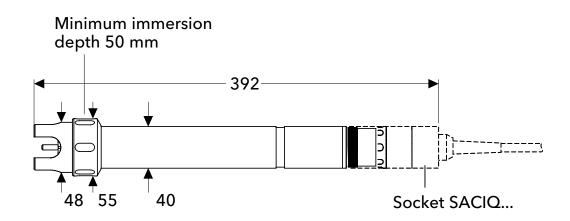
Xylem Analytics Germany Sales GmbH & Co. KG, WTW \cdot Am Achalaich 11 \cdot 82362 Weilheim \cdot Germany Phone: +49 881 1830 \cdot Fax: +49 881 183-420 \cdot Info.WTW@xylem.com \cdot www.xylemanalytics.com

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



Model	NitraLyt*Plus		
Measuring method	Potentiometirc		
Appropriate Electrode	Reference electrode VARiON® Ref, Measuring electrode VARiON® Plus NO ₃ , Compensation electrode VARiON® Plus CI		
Measuring range/ Resolution Compensation Range	NO ₃ -N: 1 1000 mg/l / 1 mg/l; 0.1 100.0 mg/l / 0.1 mg/l 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	\pm 5 % of measured value \pm 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 Protective cup: POM Temperature sensor: V4A stainless steel 1.4571 Protection rating: IP 68 (0.2 bar, with installed electrodes) Electrode connector: POM		
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

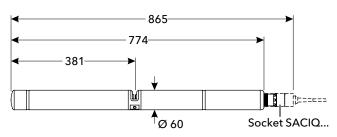


Digital optical UV VIS spectral probe NitraVis® for nitrate and suspended solids

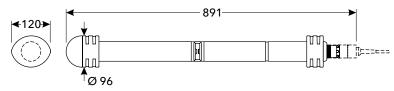
Sensor with integrated ultrasonic cleaning for the reagent-free measurement of nitrate and suspended solids (optional) - optimized for municipal wastewater treatment systems

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

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



With shock protection:



Model		NitraVis® 701 IQ	NitraVis® 705 IQ	NitraVis® 701 IQ	TS	NitraVis® 705 IQ TS
Measuring met	thod	Spectral Measurement in the	UV-VIS Range (200 - 720 nm)			
Measuring gap (optical layer th		1 mm	5 mm	1 mm		5 mm
Application (op	otimized for)	Municipal wastewater:	Municipal wastewater:	Municipal wastewa	ater:	Municipal wastewater:
Measuring range and Resolution		Inlet: 0.0 300.0 mg/l 0.1 mg/l 0.00 60.00 mg/l 0.01 mg/l		Inlet: 0.0 300.0 mg/l 0.00 60.00 mg/l 0.00 15.00 g/l		
-		Aeration: 0.0 300.0 mg/l 0.1 mg/l 0.00 60.00 mg/l 0.01 mg/l		Aeration: 0.0 300.0 mg/l 0.00 60.00 mg/l 0.00 20.00 g/l	0.1 mg/l 0.01 mg/l 0.01 g/l	
	J	Effluent: 0.0 750.0 mg/l 0.1 mg/l 0.0 150.0 mg/l 0.1 mg/l	Effluent: 0.0 250.0 mg/l 0.1 mg/l 0.00 50.00 mg/l 0.01 mg/	Effluent: 0.0 750.0 mg/l 0.0 150.0 mg/l 0 4,500 mg/l	0.1 mg/l 0.1 mg/l 1 mg/l	Effluent: 0.0 250.0 mg/l 0.1 mg/l 0.00 50.00 mg/l 0.01 mg/l 0.0 900.0 mg/l 0.1 mg/l
Accuracy (standapplication mur		NO_3 -N: ± 3 % of measured value TSS: ± 5 % of measured value	9			
Flow rate		≤3 m/s				
Pressure Resist	tance	Maximum 1 bar (incl. sensor	connection cable)			
Electrical conn	ections	2-wire shield cable with quick	fastener to sensor			
Electromagnet Compatibility	ic	EN 61326, Class B, FCC Class Intended for indispensable o				
Certifications		CE				
Mechanical		Housing: Titan Grade 2, PEEk Window: Sapphire glass Protection class: IP 68				
Weight (withou	ıt cable)	Approx. 8.82 lb (4 kg)				
Warranty		2 years for defects in quality				

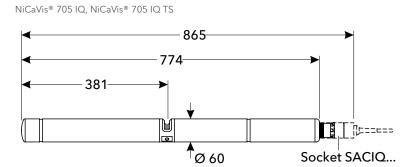
Model	Description	Order No.
NitraVis® 701 IQ	Spectral nitrate probe for the measurement in inlet/aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481044
NitraVis® 705 IQ	Like NitraVis® 701 IQ, but for measuring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



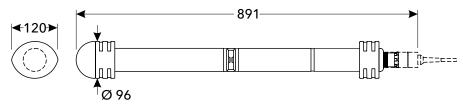
Digital optical sensors NiCaVis® for nitrate, carbon and suspended solids

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



With shock protection:



Measuring gap (optical layer thickness) 5 mm Application (optimized for) Municipal wastewater: Municipal wastewater: Measuring range and range and Resolution NO ₃ N. 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 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 0.0 500.0 mg/l 0.1 mg/l 0.0 600.0 1/m 0.1 1/m 0.0.	Model	NiCaVis® 705 IQ	NiCaVis® 705 IQ TS
Application (optimized for) Municipal wastewater: Municipal wastewater: Measuring range and NO ₃ 0.0 250.0 mg/l 0.0 250.0 mg/l 0.0 mg/l 0.0 250.0 mg/l 0.0 mg/l 0.0 500.0 mg/l 0.1 mg/l 0.	Measuring method	Spectral Measurement in the UV-VIS Range (200 - 720 nm)	
Measuring range and NO₃ 0.0 250.0 mg/l 0.1 mg/l		5 mm	
range and Resolution NO ₃ 0.0 250.0 mg/l 0.1 mg/l 0.00 mg/l 0	Application (optimized for)	Municipal wastewater:	Municipal wastewater:
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 EN 61326, Class B, FCC Class A Compatibility Intended for indispensable operation Certifications CE Mechanical Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68	range and Resolution NO ₃ -N COD TOC DOC BOD SAC 254 total SAC 254 dissolv UVT 254 dissolv TSS	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 0.0 800.0 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 0.0 600.0 1/m 0.1 1/m 0.0 100.0 % 0.1 % 0.	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 0.0 600.0 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 %
Pressure Resistance Maximum 1 bar (incl. sensor connection cable) Electrical connections 2-wire shield cable with quick fastener to sensor Electromagnetic EN 61326, Class B, FCC Class A Compatibility Intended for indispensable operation Certifications CE Mechanical Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68		UVT: <10 % UVT ±1 % UVT of measured value; >10 % UVT	±0.1 % UVT of measured value
Electrical connections 2-wire shield cable with quick fastener to sensor Electromagnetic Compatibility End of indispensable operation Certifications CE Mechanical Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68	Flow rate	≤ 3 m/s	
Electromagnetic Compatibility EN 61326, Class B, FCC Class A Intended for indispensable operation Certifications CE Mechanical Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68	Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)	
Compatibility Intended for indispensable operation Certifications CE Mechanical Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68	Electrical connections	2-wire shield cable with quick fastener to sensor	
Mechanical Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68	•		
Window: Sapphire glass Protection class: IP 68	Certifications	CE	
Weight (without cable) Approx. 8.82 lb (4 kg)	Mechanical	Window: Sapphire glass	
	Weight (without cable)	Approx. 8.82 lb (4 kg)	
Warranty 2 years for defects in quality	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

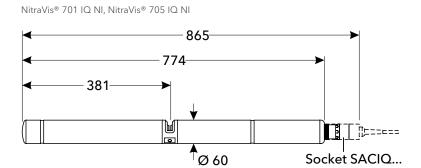




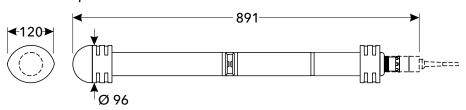
Digital optical UV spectral probe NitraVis® NI for nitrate and nitrite

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



With shock protection:



Model		NitraVis® 701 IQ NI	NitraVis® 705 IQ NI
Measuring met	:hod	Spectral Measurement in the UV Range (200-390 nm)	
Measuring gap (optical layer thi		1 mm	5 mm
Application (op	timized for)	Municipal wastewater:	Municipal wastewater:
Measuring range and Resolution	NO ₃ -N	Inlet & Aeration: 0.0 300.0 mg/l 0.1 mg/l 0.00 60.00 mg/l 0.01 mg/l 0.0 120.0 mg/l 0.1 mg/l 0.00 30.00 mg/l 0.01 mg/l	
-	NO ₃ -Ñ NO ₂	Effluent: 0.0 750.0 mg/l 0.1 mg/l 0.0 150.0 mg/l 0.1 mg/l 0.0 300.0 mg/l 0.1 mg/l 0.00 75.00 mg/l 0.01 mg/l	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
Accuracy (stand		NO_3 -N, NO_2 -N: ± 3 % of measured value ± 0.5 mg/l	,
Flow rate		≤ 3 m/s	
Pressure Resist	ance	Maximum 1 bar (incl. sensor connection cable)	
Electrical conne	ections	2-wire shield cable with quick fastener to sensor	
Electromagneti Compatibility	ic	EN 61326, Class B, FCC Class A Intended for indispensable operation	
Certifications		CE	
Mechanical		Housing: Titan Grade 2, PEEK Window: Sapphire glass Protection class: IP 68	
Weight (without	t 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,	481056
	multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	
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 and carbon

UV probes with integrated ultrasonic cleaning for the reagentfree 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

Technical Data

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:
Resolution NO ₃ -N NO ₂ -N NO ₂ -N COD total COD dissolv TOC DOC BOD SAC ₂₅₄ total	Inlet: 0.0 300.0 mg/l 0.1 mg/l 0.00 60.00 mg/l 0.01 mg/l 0.0 120.0 mg/l 0.1 mg/l 0.00 30.00 mg/l 0.01 mg/l 0.00 30.00 mg/l 1 mg/l 0 20,000 mg/l 1 mg/l 0 20,000 mg/l 1 mg/l 0 21,500 mg/l 1 mg/l 0 21,500 mg/l 1 mg/l 0 8,000 mg/l 1 mg/l 0 8,000 mg/l 1 mg/l 0 5,000 1/m 1 1/m 0 100.0 % 0.1 %	
NO ₃ -N NO ₂ -N NO ₂ -N COD _{dissolv} DOC SAC _{254 total}	Aeration: 0.0 300.0 mg/l 0.1 mg/l 0.00 60.00 mg/l 0.01 mg/l 0.0 120.0 mg/l 0.1 mg/l 0.00 30.00 mg/l 0.01 mg/l 0 12,500 mg/l 1 mg/l 0 12,500 mg/l 1 mg/l 0 12,500 mg/l 1 1/m 0 100.0 % 0.1 %	
NO ₃ NO ₃ -N NO ₂ -N COD total COD dissolv TOC DOC BOD SAC ₂₅₄ total	Effluent: 0.0 750.0 mg/l 0.1 mg/l 0.0 150.0 mg/l 0.1 mg/l 0.0 300.0 mg/l 0.1 mg/l 0.00 75.00 mg/l 0.01 mg/l 0.00 75.00 mg/l 1 mg/l 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 3.000 1/m 1 1/m 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 0.0 600.0 1/m 1 1/m 0.0 100.0 % 0.1 %
Accuracy (standard application muni. WWTP)	NO_3 -N, NO_2 -N: \pm 3 % of measured value \pm 0.5 mg/l Carbon parameters: \pm 5 % of measured value \pm 2.5 mg/l SAC: \pm 0.5 % of measured value \pm 0.4 SAK UVT: <10 % UVT \pm 1 % UVT of measured value; >10 % UV	T ± 0.1 % UVT of measured value
Flow rate	≤ 3 m/s	NiCaVis® 701 IQ NI, NiCaVis® 705 IQ NI
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)	865 → N
Electrical connections	2-wire shield cable with quick fastener to sensor	→ 774 → → → → → → → → → → → → → → → → →
Electromagnetic Compatibility	EN 61326. Class B. FCC Class A Intended for indispensable operation	70 60 Socket SACIO

Protection class: IP 68 Approx. 8.82 lb (4 kg)

2 years for defects in quality

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

Housing: Titan Grade 2. PEEK, Window: Sapphire glass



Certifications Mechanical

Warranty

Weight (without cable)

Xylem Analytics Germany Sales GmbH & Co. KG, WTW · Am Achalaich 11 · 82362 Weilheim · Germany Phone: +49 881 1830 · Fax: +49 881 183-420 · Info.WTW@xylem.com · www.xylemanalytics.com

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

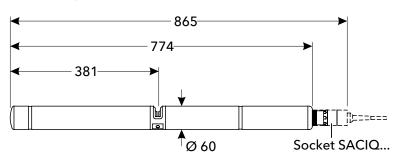


Optical nitrate sensor UV 70x IQ NOx

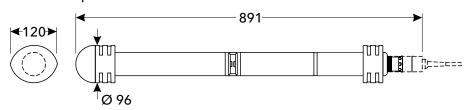
Low-cost probe with integrated ultrasonic cleaning for the maintenance-free and reagent-free measurement of nitrate

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

UV 701 IQ NOx, UV 705 IQ NOx



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 wa	stewater, waste water treatment plants, surface water
	0.0 500.0 mg/l 0.1 mg/l 0.0 100.0 mg/l 0.1 mg/l	0.0 100.0 mg/l 0.1 mg/l 0.0 20.0 mg/l 0.1 mg/l
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	
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 NOx	Optical nitrate (NOx) 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 NOx	Like UV 701 IQ NOx, 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

Technical Data

Model		CarboVis® 701 IC	2	CarboVis® 705 IC	2	CarboVis® 701 IC	2 TS	CarboVis® 705 IC	2 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 wastew	ater:	Municipal wastewa	ater:	Municipal wastew	ater:	Municipal wastew	ater:
Measuring range and Resolution	COD dissolv TOC DOC BOD SAC ₂₅₄ total SAC ₂₅₄ total*	Inlet: 0 20,000 mg/l 0 12,500 mg/l 0 20,000 mg/l 0 20,000 mg/l 0 12,500 mg/l 0 8,000 mg/l 0.0 5,000 1/m 0.0 3,000 1/m 0.0 100.0 %	1 mg/l 1 mg/l 1 mg/l 1 mg/l 1 mg/l 1 1/m 1 1/m 0.1 %			Inlet: 0 20,000 mg/l 0 12,500 mg/l 0 20,000 mg/l 0 20,000 mg/l 0 12,500 mg/l 0 8,000 mg/l 0.0 5,000 1/m 0.0 3,000 1/m 0.0 100.0 % 0.0 100.0 %	1 mg/l 1 mg/l 1 mg/l 1 mg/l 1 mg/l 1 1/m 1 1/m 0.1 % 0.01 g/l		
	SAC _{254 total} SAC _{254 dissolv}	Aeration: 0 12,500 mg/l 0 12,500 mg/l 0.0 5,000 1/m 0.0 3,000 1/m 0.0 100.0 % 0.0 100.0 %	1 mg/l 1 mg/l 1 1/m 1 1/m 0.1 % 0.1 %			Aeration: 0 12,500 mg/l 0 12,500 mg/l 0.0 5,000 1/m 0.0 3,000 1/m 0.0 100.0 % 0.0 100.0 % 0.0 20.00 g/l	1 mg/l 1 mg/l 1 1/m 1 1/m 0.1 % 0.1 % 0.01 g/l		
	COD dissolv TOC DOC BOD SAC ₂₅₄ total SAC ₂₅₄ dissolv		1 mg/l 1 mg/l 1 mg/l 1 mg/l 1 mg/l 1 1/m 1 1/m 0.1 %	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 %	0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 1/m 0.1 1/m 0.1 %	Effluent: 0 4,000 mg/l 0 4,000 mg/l 0 2,500 mg/l 0 2,500 mg/l 0 2,500 mg/l 0 3,000 1/m 0.0 3,000 1/m 0.0 100.0 % 0 4,500 mg/l	1 mg/l 1 mg/l 1 mg/l 1 mg/l 1 mg/l 1 1/m 1 1/m 0.1 % 0.1 %	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 0.0 600.0 1/m 0.0 600.0 1/m 0.0 100.0 % 0.0 100.0 % 0.0 900.0 mg/l	0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 1/m 0.1 1/m 0.1 % 0.1 %

Accuracy (standard application muni. WWTP)

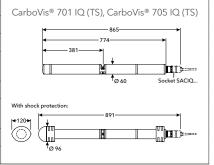
Carbon parameters: $\pm\,5$ % of measured value $\pm\,2.5$ mg/l

SAC: ± 0.5 % of measured value ± 0.4 SAK

UVT: <10 % UVT \pm 1 % UVT of measured value; >10 % UVT \pm 0.1 % UVT of measured value

TSS: ± 5 % of measured value ± 50 mg/l

≤ 3 m/s
Maximum 1 bar (incl. sensor connection cable)
2-wire shield cable with quick fastener to sensor
EN 61326, Class B, FCC Class A Intended for indispensable operation
CE
Housing: Titan Grade 2, PEEK; Window: Sapphire glass Protection class: IP 68
Approx. 8.82 lb (4 kg)
2 years for defects in quality



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

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)	
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



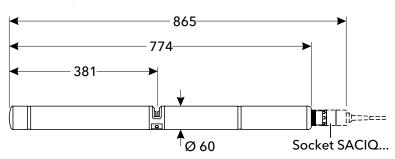


Optical SAC and UVT sensor UV 70x IQ SAC

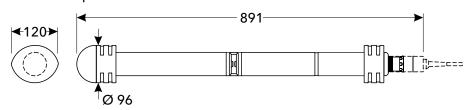
Low-cost probe (integrated ultrasonic cleaning, turbidity compensation) for the maintenance-free and reagent-free SAC measurement according to DIN 38404 C3

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 wa	stewater, wastewater treatment plants, surface water
range and Resolution TOC DOC BOD SAC254 total SAC254 dissolv UVT354 total*	0.0 20,000 mg/l 1 mg/l 0.0 12,500 mg/l 1 mg/l 0.0 20,000 mg/l 1 mg/l 0.0 12,500 mg/l 1 mg/l 0.0 8,000 mg/l 1 mg/l 0.0 8,000 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 %	0.0 800 mg/l 0.1 mg/l 0.0 800 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 %
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	
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 LIVT-254 value is standar	dized to 10 mm gap width	

^{*} 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

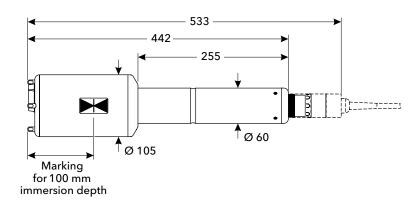


Digital IQ sensor IFL 700 IQ to determine the sludge level



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



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 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 oulet 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:

Space to open the lid approx. 200 Access to lid screws from both sides Opening angle 180 °

Required space

Technical Data

Model	Alyza IQ NH ₄ -111	Alyza IQ NH ₄ -112
Measuring method	Berthelot method (Indophenol method)	
9 9	$0.02 \dots 5.00 \text{mg/l} \text{NH}_{4}\text{-N}$ $0.00 \dots 5.00 \text{mg/l} \text{NH}_{4}\text{-N}$ $0.01 \text{mg/l} \text{NH}_{4}\text{-N}$ $\pm 2 \% \pm 0.02 \text{mg/l}$	
9 9	0.10 20.00 mg/l NH ₄ -N 0.00 20.00 mg/l NH ₄ -N 0.01 mg/l NH ₄ -N $\pm 3~\%~\pm 0.10$ 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); Stor	age 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)	
Warranty	2 years	
Subject to technical modification	ons.	

Model	Description
Alyza IQ NH ₄ -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
Alyza IQ NH ₄ -112	$\mathrm{NH_4}$ analyzer, 2-channel, with 2 measuring ranges, Indophenol method, connectable to the IQ Sensor Net

0 mg/l and 16 mg/l

Alyza IQ NH ₄ -112	${ m NH_4}$ 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 $\mathrm{NH_{4}}$, 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 $\mathrm{NH_{4}}$, 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 $\mathrm{NH_{4}}$, when using MR 2; Calibration standards with	827547



Order No.

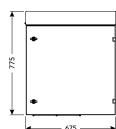
825011

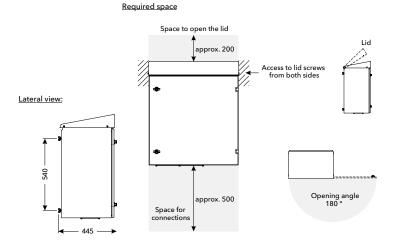
Orthophosphate Analyzer Alyza IQ



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:





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 Displayed: 0.00 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	$\pm 2 \% \pm 0.02 \text{ mg/l}$ $\pm 2 \% \pm 0.2 \text{ mg/l}$					
Sample streams/channels	1 channel	2 channel	1 channel	2 channel			
pH range	5 9	5 9					
Sample temperature	+39 +113 °F (+4 +45 °C	+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 cali	Automatic 1- and 2-point calibration					
Ambient conditions	Operational temperature: -4	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	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)						
Warranty	2 years						

Subject to technical modifications.

Model	Description	Order No.
Alyza IQ PO ₄ -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 PO ₄ -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	
Alyza IQ PO ₄ -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 PO ₄ -122	PO ₄ -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	
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

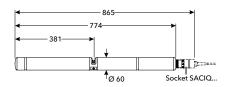


NiCaVis® optical sensors for surface water monitoring

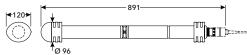
Multiparameter-sensors with ultrasonic cleaning technology for the reagentfree measurement of color, nitrate, nitrite, carbon parameters and total suspended solids in rivers and lakes.

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

NiCaVis® 705 IQ SF, NiCaVis® 705 IQ NI SF, NiCaVis® 705 IQ SF Co



With shock protection:



Technical Data

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. rive	rs and lakes				
range and Resolution NO ₃ -N NO ₂ -N NO ₂ -N COD _{diss.} TOC DOC BOD SAC ₂ 54 total SAC ₂ 54 total UVT ₂ 54 diss. UVT ₂ 54 diss.	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 mg/l 0.01 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 1 1/m 0.1 % 0.1 % 0.1 mg/l	0.0 250.0 mg/l 0.00 50.00 mg/l 0.0 100.0 mg/l 0.0 25.00 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	0.1 mg/l 0.01 mg/l 0.1 mg/l 0.01 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 1 1/m	0.0 250.0 mg/l 0.00 50.00 mg/l 0.0 500.0 mg/l 0.0 600.0 1/m 0.0 600.0 1/m 0.0 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 0 5,300 mg/l Pt/Co	1 mg/l
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					
Turbidity compensation	For color parameters:	selectable				
Flow rate	≤3 m/s					
Pressure Resistance	Maximum 1 bar (incl. s	ensor connectio	on cable)			
Electrical connections	2-wire shield cable wit	h quick fastener	to sensor			
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation					

Approx. 8.82 lb (4 kg) 2 years for defects in quality

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		
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	

Housing: Titan Grade 2, PEEK; Window: Sapphire glass; Protection class: IP 68



Certifications Mechanical

Weight (without cable)

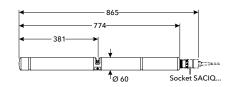
^{*} The UVT-254 value is standardized to 10 mm gap width.

Digital optical sensors for color, carbon, TSS and nitrate

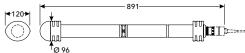
Sensor with integrated ultrasonic cleaning for the reagent-free measurement of color, carbon, suspended solids and nitrate in the wastewater treatment system drain

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 Spectral measurement in the UV-VIS range of 200-720 nm wavelength				
Measuring gap (optical layer thickness)	5 mm				
Application (optimized for)	Municipal wastewater:				
Hazen 350 nm Hazen 390 nm Hazen 445 nm Hazen 455 nm Hazen 465 nm		0.0 800.0 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 % 0.0 100.0 mg/l 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 150 10,000 mg/l Pt/Co 0 5,300 mg/l Pt/Co	1 mg/l	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 0.0 500.0 mg/l 0.0 600.0 1/m 0.0 600.0 1/m 0.0 100.0 % 0.0 100.0 % 0.0 1050 mg/l Pt/Co 0 1,150 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	0.1 mg/l 0.01 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 mg/l 0.1 l/m 0.1 l/m 0.1 l/m 0.1 % 0.1 % 0.1 mg/l 1 mg/l
Accuracy (standard application muni. WWTP)	NO_3 -N: ± 3 % of measured value ± 0.5 n Carbon parameters: ± 5 % of measured SAC: ± 0.5 % of measured value ± 0.4 SUVT: <10% UVT ± 1 % UVT of measured TSS: ± 5 % of measured value ± 50 mg/l	l value ±2.5 mg/l SAK	UVT of measu	ired value	
Turbidity compensation	For color parameters: selectable				
Flow rate	≤3 m/s				
Pressure Resistance	Maximum 1 bar (incl. sensor connection	n cable)			
Electrical connections	2-wire shield cable with quick fastener t	to sensor			
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation				
Certifications	CE				
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		
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 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	g cable (order SACIQ separately)		



Analog controllers





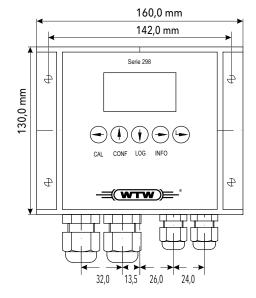


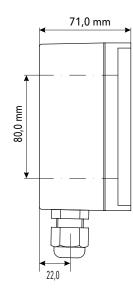


pH 298, Oxi 298, LF 298 and Cl 298

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





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 adjustab	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, ch	2 x switching contacts, change-over, max. 250 VAC / 5 A				
Current Outputs	2 x 0(4) 20 mA	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	100 240 V AC or 18 36 V DC				
Ambient Conditions	Operational temperature	Operational temperature: -10 55 °C				
Housing Material	Cast Aluminium for wall r	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
Cl 298 Pt1000	Analog controller to measure chlorine, 230 V (and 115 V) and Pt1000	801254
24V versions available u	pon request	

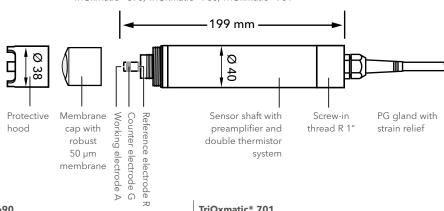


Analog electrochemical oxygen sensors TriOxmatic®

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	orinciple	Amperometric	,		
Measuring I	Range (25 °C, dep	ends on respective controller)			
	O ₂ 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	O ₂ Concentration	0.1 mg/l	0.01 mg/l; 0.1 mg/l		
	O2 Saturation	1 %	0.1 %; 1 %		
Response ti	me at 25 °C	t ₉₀ : 180 s	t ₉₀ : 30 s; t ₉₉ : 90 s		
Minimum fl	ow rate	0.05 m/s	0.23 m/s		
SensCheck		-	SensLeck, SensReg		
Temperature Measurement		Integrated NTC, -5 °C +50 °C			
Temperatur Compensati		0 °C +50 °C			
Pressure Re	sistance	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			
Electromag Compatibili		According to EN 61326 class B and FCC class A			
Certification	ıs	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	of conditions		
Model		Description	Order N		



TriOxmatic® 690-7

TriOxmatic® 690-15

TriOxmatic® 690-SO

TriOxmatic® 701-7

TriOxmatic® 701-15

TriOxmatic® 701-SO

Oxygen sensor with automatic self diagnosis and faster response time, cable length 7 m

Universal oxygen sensor without self diagnosis, with normal response time, cable length 7 m

Like TriOxmatic® 690-7, but cable length 15 m

Like TriOxmatic® 701-7, but cable length 15 m

Like TriOxmatic® 690-7, but cable length freely selectable

Like TriOxmatic® 701-7, but cable length freely selectable

201690

201692

201693V

201678

201680

201682V

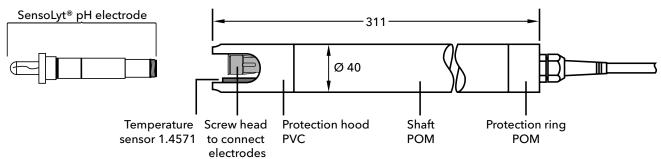
Analog pH/ORP armature SensoLyt®

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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





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)	Арргох. 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 temperatur sensor, cale length 7 m	109195

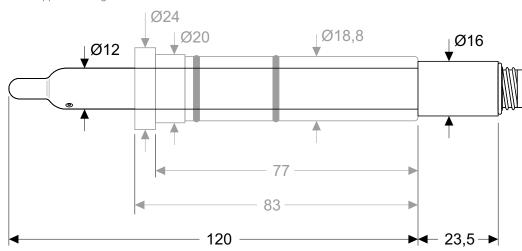


Analog pH/ORP electrodes (SensoLyt® series)

SensoLyt® electrodes for all applications from drinking water to wastewater. Armed versions for connection with SensoLyt®

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

SensoLyt® electrode



Technical Data

SensoLyt® N	lodels	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 jur	nction		Ceramic j	unction	1-hole jur	nction	PTFE ring phragm	dia-	2-hole jur	nction
Pressure	at 20 °C	10 bar	10 bar	_	10 bar	-	10 bar	_	10 bar			-
Resistance	at 60 °C	10 bar	1 bar	_	1 bar	_	1 bar	_	1 bar			_
Temperature	e Range	0 +60 °	С									
Measuring Range / Range of Application		4 12 pH	2 12 pł	1	0 14 pł	Н	2 12 pH ±2.000 mV		١V			
Mechanical	Shaft	Glass										
-	Armor	POM	PVC-U	_	PVC-U	_	PVC-U	_	PVC-U			_
-	Connection head											
•	O rings	FPM (Viton)										
-	Watering cap	PE										
Temperature sensor		Integrated	d in SensoL	yt® armatu	re							
Electrical Connection		Watertight plug-in system (S7)										
Warranty		6 months	on defects	in quality a	according to	o § 10 tern	ns of conditi	ons				

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 unamored, to be installed by example in flow cells	109100
SensoLyt® EC	Like model ECA, but unamored, to be installed by example in flow cells	109102
SensoLyt® DW	Like model DWA, but unamored, to be installed by example in flow cells	109103
SensoLyt® Pt	Like model PtA, but unamored, to be installed by example in flow cells	105412



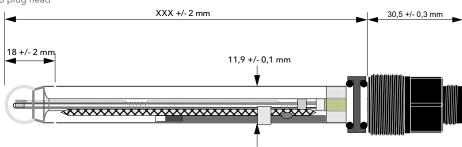
Xylem Analytics Germany Sales GmbH & Co. KG, WTW \cdot Am Achalaich 11 \cdot 82362 Weilheim \cdot Germany Phone: +49 881 1830 \cdot Fax: +49 881 183-420 \cdot Info.WTW@xylem.com \cdot www.xylemanalytics.com

Analog pH/ORP electrodes (ProcessLine®series)

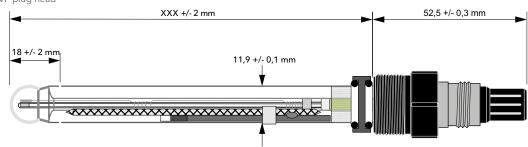
ProcessLine® (PL) electrodes for all applications: To be installed in a flow cell or in a retractable armature

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® N	/lodels	PL 80-120pH	PL 80-225pH	PL 81-225pHT VP	PL 82-225pHT VP	PL 89-225Pt	
Reference Syst	em	DuraLid polymere ele	ctrolyte, low maintenance	e, Ag/AgCl system			
Diaphragm		2-hole junction					
Pressure Resis	tance	12 bar					
Temperature R	ange	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 Watering cap: PE	steel 1.4571				
Dimensions	Installation length	120 mm	225 mm	225 mm	225 mm	225 mm	
	Shaft Ø	12 mm					
Temperature s	ensor	_		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



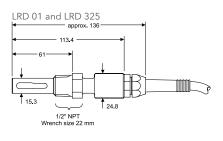
Xylem Analytics Germany Sales GmbH & Co. KG, WTW \cdot Am Achalaich 11 \cdot 82362 Weilheim \cdot Germany Phone: +49 881 1830 \cdot Fax: +49 881 183-420 \cdot Info.WTW@xylem.com \cdot www.xylemanalytics.com

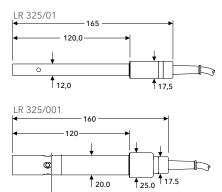
Analog conductivity measuring cells

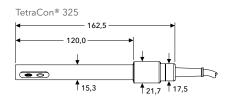
The analog conductivity measuring cells are equipped with an integrated temperature compensation and cover all applications



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







Minimum immersion depth 40 mm

	LRD 01	LRD 325	LR 325/01	LR 325/001	TetraCon® 325	TetraCon® DU/T
principle	Conductometric (2 electrode cell)	Conductometric (4 electrode cell)	Conductometric (2 electrode cell)		Conductometric (4 electrode cell)	
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	
t	0.1 cm ⁻¹ , ±2%	0.475 cm ⁻¹ , ±1.5%	K = 0.1 cm ⁻¹	$K = 0.01 \text{ cm}^{-1}$	K = 0.475 cm ⁻¹	K = 0.778 cm ⁻¹
	Depends on measi	uring range				
e sensor	Integrated NTC					
e Measurement	0 °C +130 °C	0 °C +100 °C	-5 °C 80 °C		0 °C 60 °C	
ressure	14 bar (at 20 °C)	10 bar (at 20 °C)	2 bar			
onnection			Integrated cable mit 8-pole plug			8-pole socket for cable KKDU 325
Shaft	Stainless steel 1.4571				Ероху	POM
Kable gland	Brass, nickel-plated	ł	_	_	_	_
Connection head	_	_	POM			-
Electrodes	Stainless steel 1.4571	Graphite	Stainless steel 1.4571		Graphite	
Protection Rating			IP68 (Sensor with connection cable)			IP65 in plugged condition
out cable)	Approx. 350 g	Approx. 300 g	Approx. 135 g	Approx. 280 g	Approx. 135 g	Approx. 170 g
	2 years on defects	in quality according	to § 10 terms of con	ditions		
	t e sensor e Measurement ressure ennection Shaft Kable gland Connection head Electrodes Protection Rating	Conductometric (2 electrode cell) Cange 0.001 μS/cm 1.001 μεσεια ΝΤΟ 1.002 μεσεια ΝΤΟ 1.003 με	Conductometric (2 electrode cell) Cange O.001 µS/cm 1 µS/cm 2 S/cm Conductometric (4 electrode cell) I µS/cm 2 S/cm I µS/cm	Conductometric (2 electrode cell) Conductometric (Conductometric (2 electrode cell) (4 electrode cell) (2 electrode cell) Conductometric (2 electrode cell) (4 electrode cell) Conductometric (2 electrode cell) Conductom	Conductometric (2 electrode cell) Conductometric (2 electrode cell) Conductometric (2 electrode cell) (4 electrode cell) (5 cel

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	Conductiviy measuring cell for ultrapure water, with integrated temperature sensor, cell constant $K=0.1\ cm^{-1}$, Glass flow cell	301961
LR 325/001	Conductiviy 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

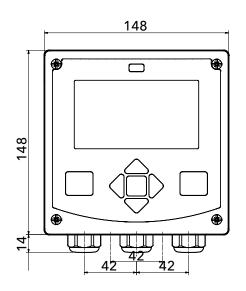


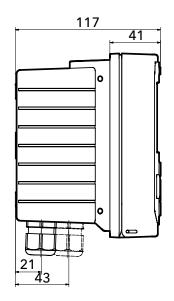
Analog controllers for EX area

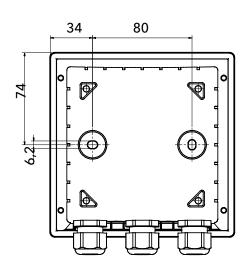


EX compliant controller for pH or conductivity, useable in zone 0 IIC T4 and suitable for high ambient temperatures

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







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 er	rror message)					
Measured value	pH or mV or temperature		Conductivity, spec. resistance, concentration, salinity of temperature				
Explosion protection	II 1G Ex ia IIC T4	II 1G Ex ia IIC T4					
EMC	EN 61326-1, class B						
LC-Display	Main display, secondary disp	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

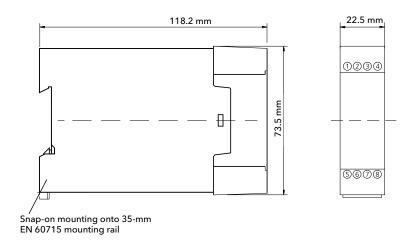


Isolated amplifier for EX area



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



Current loop	Intrinsically safe supply voltage ≥ 18 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

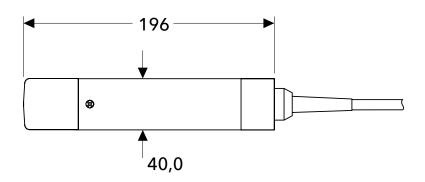


Analog conductivity measuring cells TetraCon® for EX area



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



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, ±0.2 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

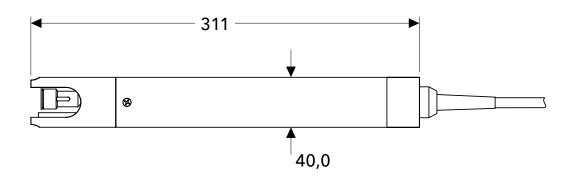
Model	Description	Order No.
TetraCon® 700-1,5 EX	Analog 4 electrodes conductivity measuring cell with integrated temperature sensor and 1.5m cable with open wires	302314EX
TetraCon® 700-7 EX	Like above, but with 7 m cable and open wires	302316EX
TetraCon® 700-15 EX	Like above, but with 15 m cable and 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 explosionendangered areas (Zone1 IIC T6)

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



Model	SensoLyt® 650-7 EX		
Integrated preamplifier	No		
Signal output	High-impedance, analog		
Temperature Measurement	ntegrated 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	
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.	
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

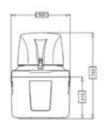


Mobile sampling in safe hands. The lightweight design and the compact housing of the **PB-M** ensure a unique carrying comfort. The modern operating structure and vacuum pump system allow a carefree sampling process.

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 Bottles (PE): 24 x 1 *		
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, continuou	s 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 \times 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 con-	ditions	

* 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

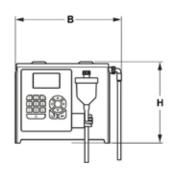


Samplers for wall mounting



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	$2 \times 0(4) \dots 20 \text{ mA}$ 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

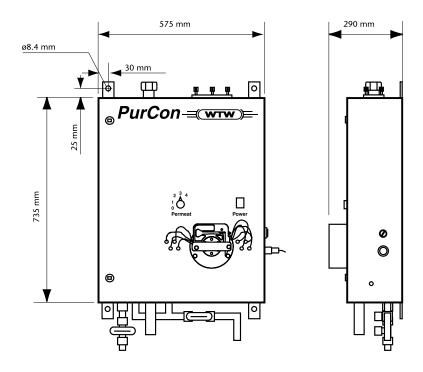


Sample preparation system PurCon®



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



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,	Housing Height x Width x Depth	735 mm x 575 mm x 220 mm
Protection Rating	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



Filtration Alyza IQ

High operational safety with the system for filtration and sample preparation directly at the edge of the sink - especially for the digital phosphate analyzer P700 IQ

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



- 1 Chain (scope of delivery: Attachment for filtration M 1.5)
- 2 Guide rail (scope of delivery: Attachment for filtration M 1.5)
- 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/PC) with filter plate (Filter/PC)

Model	FM/PC
Membrane area:	219.02 in² (1413 cm²)
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	
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 attachement 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

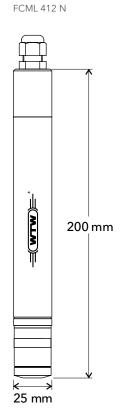


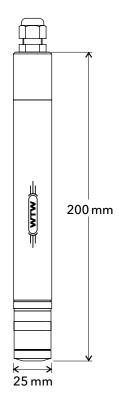
Analog chlorine sensors

For free and total chlorine

The electrochemical WTW chlorine sensors can be applied for measurements in swimming pools and drinking water. Directly connectable to the controller Cl 298.

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





TCML N

Model	FCML 412 N		TCML N	
Measuring principle	Amperometric	Amperometric		
Measured value	Free chlorine	Free chlorine Total chlorine		
Measuring Range	0.01 2.00 mg/l Cl ₂		0.01 2.00 mg/l Cl ₂	
Response time	t ₉₀ Approx. 120 s			
Minimum flow rate	Recommended minim	num flow rate in flow cell D-CL: > 30 l/	h	
Temperature Measurement	0 45 °C	0 45 °C		
Temperature Compensation	Automatically via integrated sensor			
pH range	4 9		4 12	
Polarization time	Approx. 1 hour after r	new installation or change of electrolyt	e	
Calibration method	1-point-calibration (ad	1-point-calibration (according to DPD method as reference)		
Pressure Resistance	3 bar			
Electrical Connection	2-wire-connection			
Certifications	CE	CE		
Mechanical	Shaft: Membrane cap: Working electrode: Reference electrode: Cable connection: Protection rate:	PVC PVC Gold Ag/AgCl Polyamid IP64		
Weight	Approx. 0.5 kg			
Warranty	2 years on defects in	quality according to § 10 terms of con-	ditions	

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
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

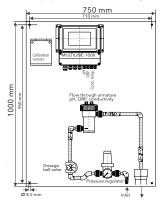


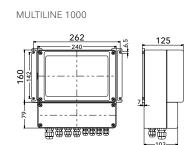


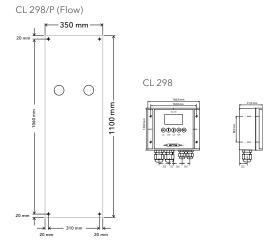
The premounted drinking water panels for multi-parameter or chlorine are user-friendly and deliver reliable measuring values

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

Basic equipment of the drinking water panel 8X-yyyyy







Model		MULTILINE 1000 (Controller for panel 8X-yyyyy)	CL 298/P (Flow)	
Measuring	pH/ORP	pH: 0.0014.00; -2000 +2000 mV		
range	Conductivity	0100 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/cm0.1 mS/cm		
	Chlorine	0.01 mg/l	0.01 mg/l	
Flow measure	ement (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 of	or manual input	
Outputs	Relays	4	2	
A	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 supp	oly	115 / 230 V AC; 48 63 Hz	100 240 V AC	
Ambient ten	nperature	-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	
*\ Plassa nata	. T-1	or operation temperature may vary cignificantly		

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

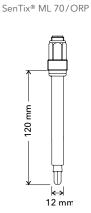
Model	Description	Order No.
MULTILINE 1000 230VAC	Multi-parameter monitor to connect up to any 16 sensors, power supply 230 VAC	480200
Drinking water panel	Ready-to-use panel to measure pH, ORP, Cond, Chlorine and Turbidity (Turb 2000); X: with or without flow; yyyyy: coding depnedent on parameter selection; details see price list or drinking water flyer	8Х-ууууу
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

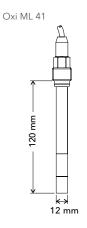


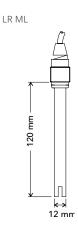
Drinking water sensors

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







Model	SenTix® ML 70	SenTix® ML ORP	Oxi ML 41	LR ML
Measuring principle	Potentiometric	Potentiometric	Amperometric	Conductometric
Measured value	рН	ORP	Dissolved Oxygen	Conductivity
Measuring Range	рН 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 con	ditions	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 μ S/cm - 20 mS/cm; temperature measurement with Pt 1000, PG 13.5 screw thread	301150

Chlorine 3017M DPD Chlorine analyzer

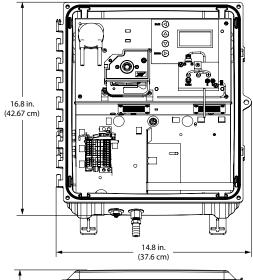


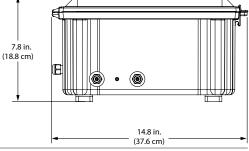
Technical Data

Model	Chlorine 3017M			e in drin
Measurement principle/ method	Colorimetric with N, N-Diethyl-p-phenylenediamine (DPD)			ntions us red DPD
Measurement Range	0 5 mg/l free or total chlorine, r	reagent dependent	We would	like to info
Resolution	0.01 mg/l		on our we	
Accuracy	±0.03 mg/l or ±5%, whichever is	greater	+	% 52
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 Sa	ample Inlet Device		
Inlet pressure	0.07 1.40 bar (1 20 psi) with	Sample Inlet Device	16.8 in.	₽₩
Reagent Consumption	~30 days per bottle at a 2.5 minu	te measurement interval	(42.67 cm)	
Calibration	Factory calibrated, 1-point if requ	iired		
Display	2.8 x 6 cm backlit LCD			
Mounting	4 mounting struts bolted to back	of unit		
Regulatory Compliance	US EPA regulations 40 CFR 141.7 Standard method 4500-CL-G; US EPA method 334.0; ISO method 7393-2	4 and 40 CFR 136.3;	<u> </u>	
Language	English, French, German, Italian, S	Spanish		•
Reagent Storage Life (before hydration)	Buffer and indicator: 5 years DPD powder: 1 year		1	
Reagent Storage Life (after hydration)	~30-40 days			
Power	115-230 VAC, 50-60 Hz, 70 VA		7.8 in. (18.8 cm)	
Relays	Two relays rated at 6A, 30 VDC			
Analog Output	One 4-20 mA configurable outpu	ıt		
Digital Output	RS-485 Modbus RTU		<u>*</u>	
Light Source	Class 1 LED; wavelength centered	d at 525 nm		
Light Path Length	>1 cm			-
Environmental conditions	Operating Temperature Range: 5	70 °C (41 158 °F) 55 °C (41 131 °F) 0% at 40 °C non-condensing		
Certification	CE, cETLus			
Mechanics		olycarbonate CPVC		

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





Light Source	Class 1 LED; wavelength cente	ered at 525 nm	
Light Path Length	>1 cm		14.8 in. (37.6 cm)
Environmental conditions	Storage Temperature Range: Operating Temperature Range Relative Humidity:		
Certification	CE, cETLus		
Mechanics	Enclosure: Flow cell Assembly: Sample pump assembly: Reagent pump assembly: Fan assembly: Terminal block: Housing:	Polycarbonate CPVC PA12 is Polyamide12 and POM is Polyacet Cyanoacrylate body and Stainless steel rol Acrylonitrile Butadiene Styrene (ABS) Polyamide 66 (PA 66) Designed for IP 66/NEMA 4X	
Weight	8 kg (<18 lbs)		
Warranty	2 year warranty		

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

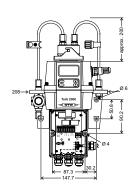


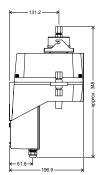
Turb PLUS 2000 Turbidity Analyzer



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





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)			
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



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.

For more information on how Xylem can help you, go to www.xylem.com



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