

PROFINET Overvoltage protection Remote control

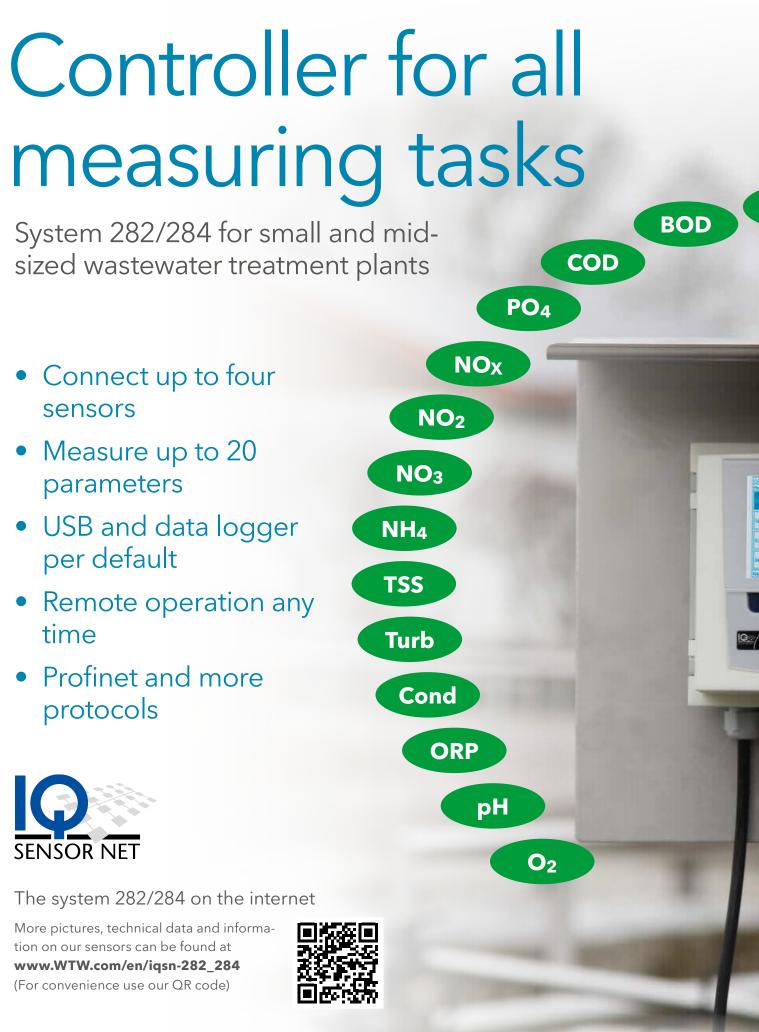
Small System, Great Performance

IQ SENSOR NET SYSTEM 282/284: CONTROLLER FOR TWO OR FOUR SENSORS





a xylem brand



This makes the difference:



117-5

2.29 🖉



All parameters at a glance

If O₂, COD, PO₄ or sludge level - up to 20 parameters at once. The intuitive software and a large graphic display promise full overview.



Up-to-date and safe with USB interface and data logger

USB interface and data logger enable updates and logging in a breath. Without technician, anytime and free of charge.



Convenient and available anytime via internet

The connection to the internet enables the access to the IQ SENSOR NET anytime at any place. Monitoring and support from remote saves time, money and nerves.

Application examples

USB interface and internal data logger

- USB interface as standard
- Integrated data logger
- Software updates easy & free-of-charge
- High protection IP67



System 282/284 with USB interface and integrated data logger as standard

Convenient from remote

- Settings via Smartphone
- Webbrowser function (IQ WEB CONNECT)
- Convenient maintenance from remote
- Profinet, Ethernet/IP, Modbus TCP, Profibus, Modbus RTU



Convenient control via Smartphone

Efficient P removal with Alyza IQ PO₄

- Efficient phosphate removal
- Two measurement ranges at one unit
- Integrated pump
- Low reagent consumption
- Automated calibration with standards



Alyza IQ PO4 for phosphate removal control

Monitoring of COD

- Reagent-free measurement of COD
- Up to 5 parameters simultaneously
- Low maintenance by integrated ultrasonic cleaning
- Precise optical measurement



Up to 5 parameters with one sensor at system 282/284

Sludge level measurement with IFL 700 IQ

- Optimized measurement location
- Easy installation
- Plotting of Echo profile
- Radio connection via MIQ/WL PS SET



Optimal sludge level measurement with system 282/284 and radio connection

Optimization of biological treatment

- With calibration free FDO 700 IQ
- NH4, NO3, K & Cl in one controller
- Matrix adjustment fast & easy
- Simple change of electrodes as required

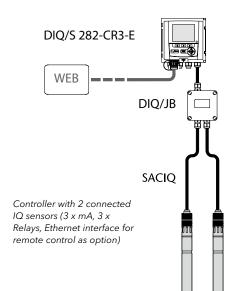


System 282/284 for optimization of biological treatment

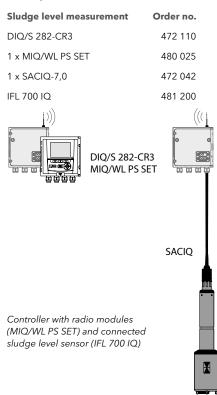
Configuration examples digital systems IQ SENSOR NET System 282/284

Example 1

Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



Example 3



Example 2

Example with 4 IQ sensors Order no. DIQ/S 284-CR6-E 472 133 4 x SACIQ-7,0 480 042 DIQ/JB 472 005 4 x IQ sensors user selected DIQ/S 284-CR6-E WEB DIQ/JB SACIQ SACIQ Controller with 4 connected IQ 000 000 000 sensors (6 x mA, 6 x Relays, Ethernet interface for remote control as option)

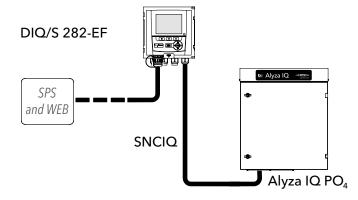
Installation accessories (selection)

For mounting of sensors, transmitters and modules we recommend our installation accessories.

For example 1	Description	Order No.
Installation set for 2 sensors and 1 controller	IN/SET2	109305
For example 2		
Installation set for 2 sensors and 1 controller	IN/SET2	109305
Junction clamp for mounting 2nd boom	MS/KK 170	109290
Boom for sensor mounting	EH/F 170-1,5	109272
Twin sensor holder	EH2/U 170	109323
For example 3		
Installation set for 1 sensor and 1 controller	IN/SET1	109304
Sun shield for 1 controller	SSH/IQ	109295
Mounting set for sun shield	MR/SD 170	109286

Example 4

Phosphate measurement and Ethernet	Order no.
DIQ/S 282-EF	472 114
1 x Alyza IQ PO4 -111	825 511
SNCIQ	480 046



Installation accessories (selection)

For mounting of sensors, transmitters and modules we recommend our installation accessories.

For example 4	Description	Order No.
Sun shield for 1 controller	SSH/IQ	109295
Mounting set for sun shield	MR/SD 170	109286
Clamp for rail mounting	RM	821988

Controller with connected Alyza IQ PO₄ (3 x Relays, Ethernet interface for remote control and equipped with field busses to transfer data to a PLC)

Example 5

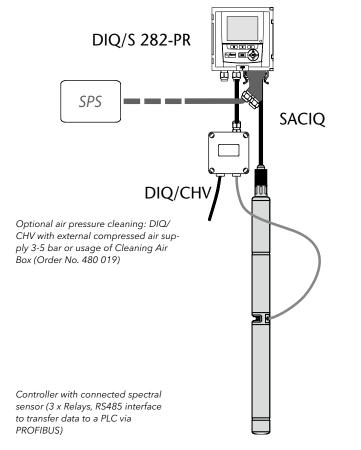
 Spectral sensor and PROFIBUS
 Order no.

 DIQ/S 282-PR
 472 111

 1 x SACIQ-7,0
 480 042

 1 spectral sensor
 user selected

For example 5	Description	Order No.
Installation set for 1 sensor and 1	IN/SET1	109304
controller		





Accessories IQ SENSOR NET*



*For additional accessories, visit our website:
 https://www.xylemanalytics.com/en/
 products/accessories/accessories
 (For convenience use our QR code).

Technical data

Connectable sensors	all IQ sensors, at DIQ/S 282: 2, at DIQ/S 284: 4
Parameters	pH/ORP, O ₂ , Cond, Turbidity, TSS, NH ₄ +, NO ₂ -, NO ₃ -,
	NO _x , PO ₄ , COD, BOD, TOC, DOC, SAC, UVT, sludge level,
	color
Interfaces	USB and data logger (as standard); as option:
	PROFIBUS (RS 485) or MODBUS (RS 485) or Ethernet/IP,
	MODBUS TCP, PROFINET (RJ45) or RJ45 for remote control
Overall cable length	250 m (820 ft.)
Power supply	Wide range power supply (100 240 VAC) or 24 V

Order information

Model	Description	Order No.
Controller for up to 2 se	ensors	
DIQ/S 282-CR3	Controller for 2 IQ sensors, with 3 x 0(4) 20 mA, 3 x Relays	472 110
DIQ/S 282-PR	Controller for 2 IQ sensors, with PROFIBUS connection, 3 x Relays	472 111
DIQ/S 282-MOD	Controller for 2 IQ sensors, with MODBUS connection, 3 x Relays	472 112
DIQ/S 282-CR3-E	Controller for 2 IQ sensors, with 3 x 0(4) 20 mA, 3 x Relays, with RJ45 interface for internet access and remote control	472 113
DIQ/S 282-EF	Controller for 2 IQ sensors, with Ethernet fieldbuses, internet access and remote control, 3 x Relays	472 114
Controller for up to 4 se	ensors	
DIQ/S 284-CR6	Controller for 4 IQ sensors, with 6 x 0(4) 20 mA, 6 x Relays	472 130
DIQ/S 284-PR	Controller for 4 IQ sensors, with PROFIBUS connection, 3 x Relays	472 131
DIQ/S 284-MOD	Controller for 4 IQ sensors, with MODBUS connection, 3 x Relays	472 132
DIQ/S 284-CR6-E	Controller for 4 IQ sensors, with 6 x 0(4) 20 mA, 6 x Relays, with RJ45 interface for internet access and remote control	472 133
DIQ/S 284-EF	Controller for 4 IQ sensors, with Ethernet fieldbuses, internet access and remote control, 3 x Relays	472 134
Connectable sensors (s	selection)	
FDO [®] 700 IQ	Calibration free, optical sensor for O ₂	201 650
VARiON ^{®Plus} AN/A comp SET NH4 & NO3	Electrochemical ISE sensor for NH_4 , NO_3 and K	107 066
VisoTurb® 700 IQ	Optical sensor for turbidity with ultrasonic cleaning	600 010
ViSolid® 700 IQ	Optical sensor for Suspended Solids with ultrasonic cleaning	600 012
CarboVis® 705 IQ	Spectral sensor with ultrasonic cleaning for COD, BOD, TOC, DOC, SAC and UVT	481 050
NiCaVis® 701 IQ NI	Spectral sensor with ultrasonic cleaning for COD, BOD, TOC, DOC, NO $_3$ and NO $_2$	481 054
UV 701 IQ SAC	Single wavelength sensor with ultrasonic cleaning for SAC and UVT	481 036
Alyza IQ PO ₄ -111	Wet chemical analyzer for Ortho-Phosphate	825 511
IFL 700 IQ	Ultrasonic sensor for sludge level	481 200



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