

xylem



Drinking water monitoring

Sustainable, user-friendly and reliable



Drinking Water Panel

Thanks to the combination of our proven IQ SENSOR NET system with the intelligent IDS sensors, the measuring panel delivers accurate and reliable results.



Digitally connected thanks to versatile fieldbus communication for secure data transmission



Compact and efficient design for easy handling in everyday work



Water conservation with low volume flow

6

Turbidity analyzer

Optional Turbidity analyzer which is compliant to ISO EN DIN 7027 or EPA 180.1.

5

Flow indicator

The system ensures that the flow rate remains within the optimal range for reliable results.

4

Sample valve

Reference measurements can be taken without disrupting ongoing panel monitoring.

3

Dosage ball valve

Water flow can be easily regulated directly on the panel for precise process control.

2

Pressure reducer

Preset to 1.5 bar to deliver the perfect flow rate for accurate sensor performance.

7

Recesses for excess cable lengths

Clean and tidy appearance thanks to the elegant cable ducts.

8

MIQ/IDS module

The MIQ/IDS module enables effortless connection of IDS sensors to all IQ SENSOR NET controllers for a fully integrated monitoring system.

9

Sensor flow-through cells

The opaque design prevents interference from light and algae growth, ensuring consistently accurate measurements.

10

Onboard maintenance station

Users can quickly perform sensor maintenance and calibration directly on the panel for efficient upkeep.

11

(Dis-)assembly tool

A universal tool for flow-through cells is included, making routine maintenance simple and hassle-free.

1

Inlet

12

Outlet



Parameters

Up to five parameters for your individual measurement solution
Select up to four sensors and the optional turbidity analyzer.



pH



D7.08

SenTix® 945(-P)

Low-maintenance IDS gel electrolyte pH electrode with built-in temperature sensor.

pH



D7.08

SensoLyt® 900-P

Alternative to SenTix® 945(-P) for demanding raw water.

Cond



D7.08

TetraCon® 925(-3, -P)

Proven four-electrode technology and automatic transfer of cell constant and temperature compensation.

Cond



D7.08

LR 925/01(-P)

Two-electrode technology for ultrapure water.

D.O.



D7.08

FDO® 925(-3, -P)

Low maintenance and fast ($t_{99} < 60s$) with factory-calibrated sensor cap.

ORP



D7.08

SensoLyt® ORP 900-P

Combined IDS ORP electrode with polymer electrolyte, glass shaft, perforated diaphragm and integrated temperature sensor.

Cl



D7.01

FCML 412-M12

Free chlorine up to 2 or 20 mg/l.

TCML 412-M12

Total chlorine up to 2 mg/l.

IDS sensors:

- Effortless installation with automatic sensor recognition by the IQ SENSOR NET controller
- On-board calibration capability on the Drinking Water Panel

Chlorine sensors (amperometric method):

- Free chlorine up to 2 or 20 mg/L
- Total chlorine up to 2 mg/L

Turbidity analyzer (standard-compliant):

- Integrated ultrasonic cleaning

Turb



D7.06

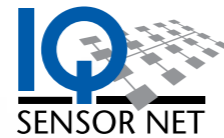
Turb PLUS 2000

Compliant to ISO EN DIN 7027 or EPA 180.1.

IQ systems for drinking water suppliers

The system 2020 3G

The operating terminal with large display for monitoring of more than 4 parameters.



MIQ/TC 2020 3G

Portable operating unit with USB interface; can be connected to any module.

The modules

For communication, power supply and sensor connection.



MIQ/CR3

With 3 power outputs and 3 relays.



MIQ/C6

With 6 power outputs.

MIQ/R6

With 6 relays.



MIQ/IC2

With 2 power inputs for connecting the Turb PLUS 2000 or any other external sensor.



MIQ/MC3

For digital communication with the control centre.



MIQ/PS or MIQ/24V

For power supply via wide range or 24V (AC and DC).



MIQ/IDS1

For the connection of one IDS sensor.



MIQ/IDS2

For the connection of two IDS sensors.



MIQ/IDS4

For the connection of up to four IDS sensors.

Compact and user-friendly

The systems for up to four sensors impress with their compact design and simple installation.



DIQ/S 281



D1.09



DIQ/S 282



D1.07



DIQ/S 284



D1.08

Your Benefits:

- Expandable at any time for growing requirements
- Compilation for your individual needs
- Can be combined with spectral sensor for nitrate or SAC/UVT
- Always up-to-date with free updates



Do you have an IQ SENSOR NET?

No problem! We offer you the flexibility to easily expand your existing products – just get in contact with us!

Ordering

Discover our innovative Drinking Water Panel!



Three variants of the WTW Drinking Water Panel: With different numbers of flow cells and with or without turbidity analyzer.



D7.07

Technical data (extract)

Sensor	Measuring range	Accuracy	Resolution
SenTix® 945(-P)	0.000 to 14.000 pH	pH: ± 0.004; (IDS measurement electronics)	0.001 pH; 0.1 mV
SensoLyt® 900-P	pH 0.000 to 12.000 pH	U [mV]: ± 0.2 T [°C]: ± 0.1	
TetraCon® 925(-3, -P)	κ: 0.0 μS/cm to 2000 mS/cm SAL: 0.0 to 70.0 TDS: 0 to 199.9 g/L	± 0.5 % from measured value; T [°C]: ± 0.1	κ: up to 0.1 μS/cm or until 0.01 mS/cm SAL: 0.1 TDS: up to 1 mg/l or until 0.01 g/l
LR 925/01(-P)	κ: 0.01 to 199.9 μS/cm	± 0.5 % from measured value	Up to 0.01 μS/cm
FDO® 925(-3, -P)	D.O. 0.00 to 20.00 mg/L 0.0 to 200.00 %	± 1.5 %	0.01 mg/l 0.1 %
SensoLyt® 900-ORP-P	ORP -1250.0 to +1250.0 mV	U [mV]: ± 0.2 T [°C]: ± 0.1	0.1 mV
FCML 412 M12-2	Free Cl 0.005 to 2.000 mg/L	< 1 % up to 2 mg/L	0.001 mg/l
FCML 412 M12-20	0.05 to 20.00 mg/L	< 1 % up to 16 mg/L	0.01 mg/l
TCML 412-M12-2	Total Cl 0.005 to 2.000 mg/L	< 2 %	0.001 mg/l
Turb PLUS 2000	Turb Factory setting: 0 to 100 NTU; opt.: 0 to 10; 0 to 1000 NTU	Up to ± 2 % of measured value or ± 0.02 NTU	Up to 0.0001 NTU

Panel/measuring system

Outputs	Relais: Number selectable Power outputs (mA): Number selectable Digital: Profinet, Profibus, Modbus RTU, Modbus TCP, Ethernet/IP
USB Interface	Included as standard on all panels
Data Logger	Data memory for up to 525,600 data sets

Panel ordering guide

Components	Options	Order no.	
Drinking Water Panel	Pressure reducer, valve, tap and flow indicator on the panel.	8C-	
Turbidity analyzer	without Turbidity analyzer	0	
	acc. to ISO EN DIN 7027 (Infra red)	1	
	acc. to EPA 180.1 (White light)	2	
Sensors (max. 4 sensors in total)	no chlorine sensor	0	
	free chlorine or total chlorine sensor	1	
	Number of other parameters (pH, conductivity, DO, ORP)	0	0
		1	1
		2	2
3		3	
MIQ modules	MIQ/IDS2	2	
	MIQ/IDS4	4	
Your order number	Not every combination is available. Sensors and IQ SENSOR NET components must be ordered separately.	8C- 0	

Ordering information

Sensors and analyzers	Order no.
SenTix® 945	Low-maintenance IDS pH electrode gel electrolyte, integrated temperature sensor, 3 junctions, 1.5 m fixed cable with digital connector. 103743
SenTix® 945-P	Same as SenTix® 945, but with a plug head. 103764
SensoLyt® 900 ORP-P	Combined IDS ORP measuring chain with polymer electrolyte and glass shaft, integrated temperature sensor. Electrode with plug-in head. 103749
SensoLyt® 900-P	Robust pH electrode with polymer electrolyte and glass shaft, with IDS plug-in head. 103748
TetraCon® 925	4-pole IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 cm ⁻¹ . 1.5 m fixed cable with digital connector. 301710
TetraCon® 925-3	Same as TetraCon® 925, but with a 3 m cable. 301711
TetraCon® 925-P	Same as TetraCon® 925, but with a plug head. 301716
LR 925/01	2-electrode-IDS conductivity cell with ss-electrodes, for ultra pure water, cell constant 0.1 cm ⁻¹ , 1.5 m fixed cable, flow trough vessel. 301720
LR 925/01-P	Same as LR 925/01, but with a plug head. 301722
FDO® 925	Optical IDS DO sensor with fast responding bevelled membrane, 1.5 m fixed cable. 201300
FDO® 925-3	Same as FDO® 925, but with a 3 m cable. 201301
FDO® 925-P	Same as FDO® 925, but with a plug head. 201306
FCML 412 M12-2	Chlorine sensor based on the amperometric principle, measurement of free chlorine. Measuring range: 0–2 mg/L, pH range 4–9. 201189
FCML 412 M12-20	Same as FCML 412 M12-2, Measuring range: 0–20 mg/L, pH range 4–9. 201194
TCML 412 M12-2	Chlorine sensor based on the amperometric principle, measurement of total chlorine, measuring range: 0 ... 2 mg/L, pH range 4-12. 201197
ADA S7/IDS	Adapter cable 1.5 m with digital connector, for SenTix® combination electrode with S7 plug head. 108130
AS/IDS-1.5	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 1.5 m. 903850
ADA CI/IDS	Adapter for connecting FCML or TCML chlorine sensor. 108155
Turb PLUS 2020	Online turbidity meter with white light, nephelometric, with ultrasonic cleaning, EPA 180.1. 600026
Turb PLUS 2021	Online turbidity meter with infrared light, nephelometric, with ultrasonic cleaning, ISO EN DIN 7027. 600036

Terminal / Controller / Modules (selection)

Terminal / Controller / Modules (selection)	Order no.
MIQ/TC 2020 3G	Module IQ Terminal/Controller for up to 20 IQ sensors, configurable as controller (permanently installed) or as terminal with redundant controller function for system 2020 with USB interface. 470020
MIQ/TC 2020 3G-CR3	MIQ/TC 2020 3G, MIQ/CR3 with 3 analog outputs (0/4-20 mA) and 3 relays, MIQ/PS. 470022
MIQ/TC 2020 3G-C6	MIQ/TC 2020 3G, MIQ/C6 with 6 analog outputs (0/4-20 mA), MIQ/PS wide range power supply. 470024
MIQ/TC 2020 3G-EF	MIQ/TC 2020 3G, MIQ/MC3 Controller with Ethernet interface, MIQ/PS wide range power supply. 470026
DIQ/S 281-CR2	Universal Transmitter to operate up to 1 digital IQ sensor, with 2 x 0(4) ... 20 mA, 2 x Relays. 472103
DIQ/S 282-CR3	Universal Transmitter to operate up to 2 digital IQ sensors, with 3 x 0(4) ... 20 mA, 3 x Relays. 472110
DIQ/S 284-CR6	Universal Transmitter to operate up to 4 digital IQ sensors, with 6 x 0(4) ... 20 mA, 6 x Relays. 472130
MIQ/IDS1	Modul IQ to connect 1 IDS sensor and 2 IQ sensors to a 2020 or a 28x Controller. 480031
MIQ/IDS2	Modul IQ to connect 2 IDS sensor and 2 IQ sensors to a 2020 or a 28x Controller. 480032
MIQ/IDS4	Modul IQ to connect 4 IDS sensors to a 2020 or a 28x Controller. 480034
MIQ/PS	Module IQ/Power Supply, wide-range power supply, power output max. 18 W, 3 idle connections. 480004
MIQ/24V	Module IQ/24V, power supply for 24 VAC / 24 VDC input voltage. 480006
MIQ/R6	Module IQ/Relais 6, for system 2020 and 282/284, with 6 relays (240 VAC/2 A). 480013
MIQ/CR3	Module IQ/Current Relais 3, for System 2020 and 28X, with 3 analog (0/4-20 mA) and 3 relay outputs (250 VAC/5 A). 480014
MIQ/C6	Module IQ/Current 6, with 6 (0) 4 - 20 mA outputs. 480015
MIQ/IC2	Module IQ/input current with 2 (0) 4 - 20 mA inputs, for system 2020 and 282/284). 480016
MIQ/MC3	Module IQ/microcontroller for system 2020. 471020

Use our configurator to create your customised panel solution in just a few steps.



Flow-through cells and replacement kits


Looking to expand your panel or modify its configuration?
No problem!

All panel components are available separately, giving you the flexibility to adapt your setup as your monitoring needs evolve.





**Hose couplings
(set of 4)**

AS/CON
Order no.: 904020



**Pre-cut
hose set**

AS/4-2
Order no.: 904015



**Prefabricated
item rail**

MS DWP
Order no.: 904001



**(Dis-)assembly
tool**

FS DWP
Order no.: 904030



**Chlorine
flow-through cell**

D 19
Order no.: 401991



**Standard
flow-through cell**

D 17
Order no.: 401990



**Spare parts for
chlorine flow cell**

KT/D 19
Order no.: 904024



**Spare parts for
standard flow cell**

KT/D 17
Order no.: 904023

Ordering information

Flow-through cells and single items		Order no.
D 17	Flow-through cell D 17 for IDS sensors	401990
D 19	Flow-through cell D 19 for FCML and TCML chlorine sensors	401991
MS DWP	Mounting rail for fastening the flow cells	904001
FS DWP	Fork wrench for the sensor screw connections on the flow cells	904030
Pr-DN10	Pressure reducer: max. inlet pressure 16 bar, adjustable outlet pressure from 1.5 to 6 bar.	904000
Do-DN10	Dosing valve for flow regulation (0-90 l/min, DN10 PVC)	904005
MTC/C	Maintenance console for the Drinking Water Panel	904009

Replacement kits		Order no.
AS/CON	Hose connections for the flow cells	904020
KT/D 17	Spare parts for the flow cell D 17	904023
KT/D 19	Spare parts for the flow cell D 19	904024
AS/4-2	Hose set with 4 short and 3 long hoses for the flow-through cells D 17 and D 19	904015
AS/5m	5 m hose in one piece for the flow-through cells D 17 and D 19	904017

Further products for continuous monitoring!



Cl

Chlorine 3017M

Order No.: 860151

Analyzer for monitoring free and total chlorine using the DPD method.

Further information can be found in the flyer 999319US or on the [internet](#).



SAC

UVT

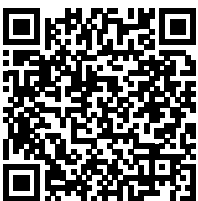
NO₃

Spectral sensors

Order No.: 481034 to 481038

Sensor for monitoring SAC/UVT and NO₃.

Further information can be found in the flyer 999132US or on the [internet](#).



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