xylem

Let's Solve Water

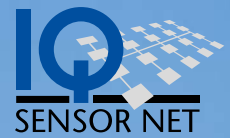# The System 281

FOR PH / ORP, DISSOLVED OXYGEN, TURBIDITY OR CONDUCTIVITY —
SIMPLE. DIGITAL. MODERN.

WTW

a **xylem** brand

Controller 281

IQ SENSOR NET

- High quality, cost-effective, no risk

- Up-to-date and future-proof

- 100 % IQ Sensor Net

pH

ORP

D.O.

Turb

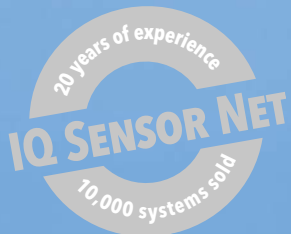**Cond**

20 years of experience
IQ Sensor Net
10,000 systems sold

High quality, cost-effective, no risk

Use the current IQ Sensor Net technology and proven measurement technology from WTW. The System 281 offers an ideal and extremely economical access to the IQ Sensor Net.

Up-to-date and future-proof

Secure data transmission, automatic sensor recognition and free Software updates via USB! Get started to the digital world and stay sustainable.

100 % IQ Sensor Net

Uniform software throughout the IQ Sensor Net and compatible sensors for all systems facilitate future expansions.

Application examples

Developed for wastewater, successfully applied in drinking water applications and the process industry for many years: The robust products of WTW are made for many applications. Try it yourself!

In drinking water:
SensoLyt® 700 IQ
for different pH ranges

In the outlet:
VisoTurb® 700 IQ
turbidity sensor with ultrasonic cleaning

In the aeration basin:
calibration free **FDO® 700 IQ**
for dissolved oxygen

In the process industry:
TetraCon® 700 IQ
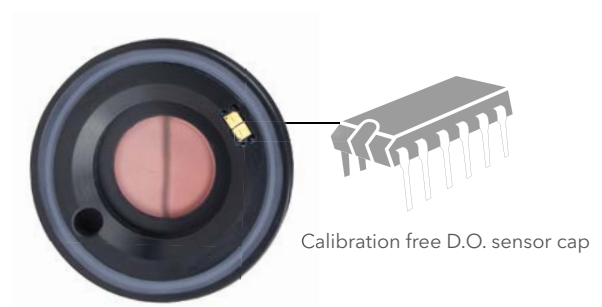4 electrodes conductivity cell

Your benefits at a glance

You are planning a replacement of your existing analog equipment? The System 281 combines the known performance of analog products with the advantages of the digital IQ Sensor Net:

• Proven and reliable IQ Sensor Net technology

• 100 % IQ Sensor Net look & feel

• 2 mA for main and secondary parameter

• 2 relays for alarm for main and secondary value

• You can easily upgrade to DIQ/S 282/284, since IQ sensors can be retained

• Free software updates with new features

Our sensors have been convincing for many years through their robust construction and precise measuring results - also as seawater (SW) versions for corrosive media.

• Low maintenance turbidity sensor through ultrasonic cleaning

• Calibration free optical D.O. sensor

• Variable lengths for sensor cables

Calibration free D.O. sensor cap
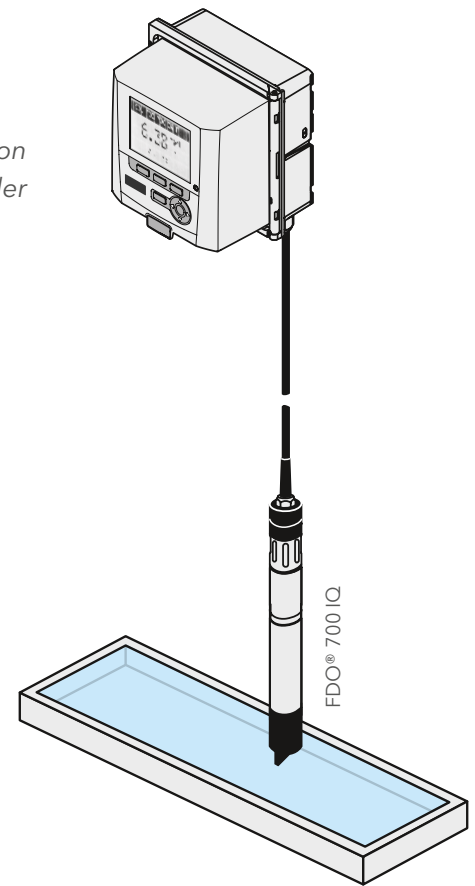
The system 281 at the web

TD

D1.09

FDO® 700 IQ

Technical data

Connectable sensors	IQ sensors for pH/ORP, O_2, conductivity or turbidity and fixed cable sensors (10 m)
Current outputs and relays	2 x (0) 4–20 mA 2 x relays
Parameters	pH 0 ... 14 (e.g. with electrode SensoLyt® DWA) ORP ±2000 mV Cond 10 µS/cm ... 500 mS/cm D.O. (electrochemical) 0.0 ... 60.0 mg/l or 0 ... 600 % D.O. (optical) 0 ... 20.00 mg/l or 0 ... 200.0 % Turbidity 0.05 ... 4000 FNU
Cable length sensor	100 m fixed cable
Max. total cable length	250 m (for fixed cable sensors DIQ/JB and SNCIQ cable needed)
Power supply	Wide range mains converter (100-240VAC) or 24V
Connectable modules	DIQ/CHV (Cleaning Head Valve) and DIQ/JB

Order information

Model	Description	Order No.
Controller		
DIQ/S 281	Dual IQ/System 281, Universal monitor for the connection of 1 digital IQ sensor (pH/ORP, D.O., conductivity or turbidity), with 2 analog outputs (0/4-20 mA) and 2 relays, 100 ... 240 VAC	472103
DIQ/S 281/24V	Like the DIQ/S 281, but for 24 V AC/ DC voltage supply	472104
IQ sensors		
SensoLyt® 700 IQ	Digital pH/ORP fitting for SensoLyt® electrode, with integrated preamplifier and temperature sensor (please order cable separately)	109170
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
TetraCon® 700 IQ	Digital 4 electrode conductivity measuring cell for highly contaminated wastewater (please order cable separately)	302500
TriOxmatic® 700 IQ	Universal oxygen sensor for the measurement and regulation of oxygen input in wastewater treatment plants (please order cables separately)	201640
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
VisoTurb® 700 IQ	Digital turbidity sensor with integrated ultrasonic cleaning (please order cable separately)	600010
IQ fixed cable sensors (as long as stocks last)		
SensoLyt® 700 IQ F	pH/ORP sensor with 10 m fixed cable for SensoLyt® electrodes	109177
TriOxmatic® 700 IQ F	D.O. sensor with 10 m fixed cable, supplied with accessory kit (ZBK 600)	201643
FDO® 700 IQ F	Calibration free optical D.O. sensor with 10 m fixed cable, factory calibrated	201656
FDO® 701 IQ F	Calibration free optical D.O. sensor with 10 m fixed cable, factory calibrated, with fast response	201658
TetraCon® 700 IQ F	4 electrode conductivity cell with 10 m fixed cable	302507
VisoTurb® 700 IQ F	Turbidity sensor with 10 m fixed cable and ultrasonic cleaning	600007
SensoLyt® electrodes (selection)		
SensoLyt® SEA	pH electrode for municipal wastewater, measuring range 2 ... 12 pH	109115
SensoLyt® DWA	pH electrode for drinking water, measuring range 0 ... 14 pH	109119
SensoLyt® TFA	pH electrode for industrial or non typical municipal wastewater, range 2 ... 12 pH	109114
Cable (selection)		
SACIQ-7,0	IQ SENSOR NET connection cable, length 7 m	480042
SACIQ-15,0	IQ SENSOR NET connection cable, length 15 m	480044