

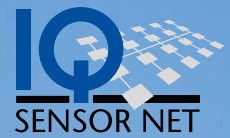


The System 281

FOR PH / ORP, DISSOLVED OXYGEN, TURBIDITY, TSS, CONDUCTIVITY OR SLUDGE LEVEL –
SIMPLE. DIGITAL. MODERN.



Controller 281



- High quality, cost-effective, no risk
- Up-to-date and future-proof
- 100 % IQ SENSOR NET

pH

ORP

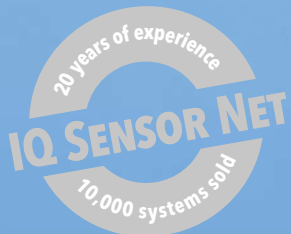
D.O.

Turb

TSS

Cond

Sludge



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 aeration basin of a WWTP with industrial wastewater:
ViSolid® 700 IQ
Suspended solids sensor with ultrasonic cleaning



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



In the post-sedimentation:
IFL 700 IQ
Ultrasonic sensor for detailed presentation of sludge profile



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
- Versions with 2 mA outputs, Modbus RTU or HART available
- 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.

The system 281 at the web



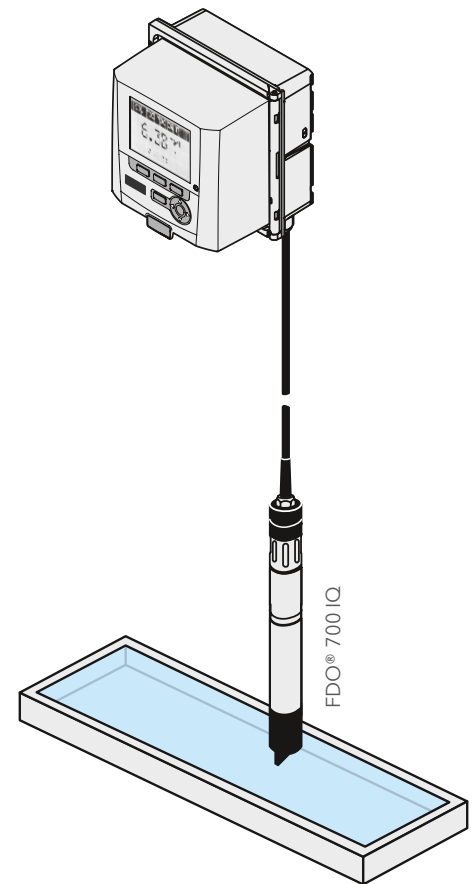
Detailed technical data and mounting accessories you can find on the data sheet D1.09, in our brochure "Product Details" and under www.WTW.com/en/281 (For convenience use our QR code).

Technical data

DIQ/S 281-	CR2 (/24V)	MOD	HART
Connectable sensors	IQ sensors for pH/ORP, O ₂ , conductivity, turbidity, TSS or sludge level		
Current outputs and relays	2 x (0) 4-20 mA 2 x relays	Modbus RTU 2 x relays	HART 2 x relays
Cable length sensor	100 m fixed cable		
Max. total cable length	250 m		
Power supply	Wide range mains converter (100-240VAC) or 24V		
Connectable modules	DIQ/CHV (Cleaning Head Valve), DIQ/JB and MIQ/WL PS SET		



D1.09



Order information

Model	Description	Order No.
Controller		
DIQ/S 281-CR2	Dual IQ/System 281, Universal monitor for the connection of 1 digital IQ sensor (pH/ORP, D.O., conductivity, turbidity, TSS or sludge level), 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 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
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
IFL 700 IQ	Digital ultrasound interface level sensor with automatic cleaning system	481200
IFL 701 IQ	Digital ultrasound interface level sensor	481201
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

