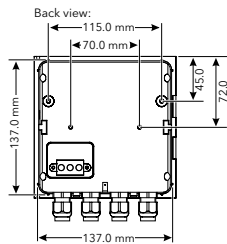


IQ SENSOR NET System 281

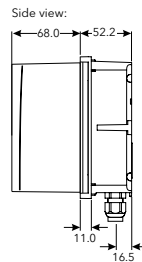
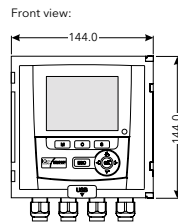


The System 281 – digital and economic single parameter measuring unit of the IQ SENSOR NET. For pH/ORP, O₂, turbidity, TSS, conductivity or sludge level with the latest IQ SENSOR NET technology.

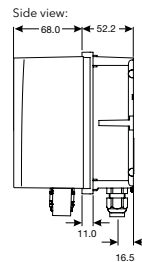
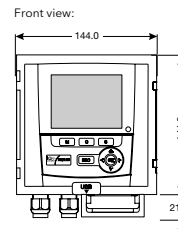
We would like to inform you about the application range on our website



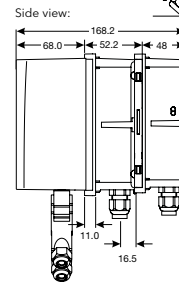
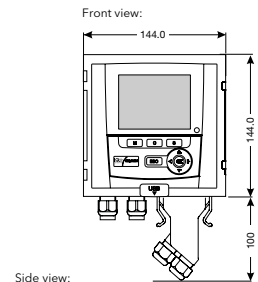
DIQ/S 281-CR2(/24V)



DIQ/S 281-MOD



DIQ/S 281-HART



Technical Data

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; 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	100 ... 240 VAC (50/60 Hz)	
Modules	DIQ/JB, DIQ/CHV and MIQ/WL PS SET			
Cable Feeds	4 screw cable glands M 16 x 1.5 (expandable 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			
USB interface	USB-A for software updates			
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).			
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 x 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			

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

