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YSI IQ SensorNet 282 & 284 Terminals

Continuous Water Quality Monitoring for Process Control

The YSI IQ SensorNet 282 and 284 are modular water quality terminals for complete process control designed for wastewater.

The network can accept additional sensors easily at any time and grow as your facility grows. Benefits include better network visibility and management, early detection of network failures, improved compliance with regulatory targets, and cost savings (energy, pump/blower maintenance, labor).

Parameters:

- Dissolved Oxygen (optical or electrochemical)
- pH
- ORP/Redox
- Conductivity/Salinity
- Temperature
- Turbidity*
- TSS (total suspended solids)*
- Ammonium
- Nitrate
- Nitrite
- Orthophosphate
- Potassium
- Sludge Level
- COD (chemical oxygen demand)*
- TOC (total organic carbon)*
- DOC (dissolved organic carbon share of TOC)*
- SAC (spectral absorption coefficient)*
- BOD (biochemical oxygen demand)*

* ultrasonic cleaning for sensors

- 3-year instrument warranty
- User-replaceable cables and sensors
- Centralized power supply along entire network; 2-wire cable provides power and communications
- Lightning protection along network
- Tactile buttons; easily use while wearing gloves
- Modular expansion from 1 to 4 sensors and up to 20 parameters
- Many sensors provide ultrasonic cleaning
- Digital outputs available
- Programmable access permission
- USB interface and data logger

Building a system is easy...choose the IQ SensorNet terminal, determine which modules are needed (control, communications, etc.), determine distances for cabling and select parameters.



282 Terminal



IQ SensorNet 282/284 Specifications

Certifications	ETL, cETL (conforms with relevant UL and Canadian standards), CE
Electromagnetic Compatibility	EN 61326, Class B; FCC Class A, EMC for indispensable operation
Integrated Lightning Protection	According to EN 61326 enhanced over-voltage protection for <i>entire system</i> , implemented in each component
Cable	2-wire with shield for power supply and communications; resistant to polarity reversal; comprehensive EMC shield control; cable topology within network can be in the form of a line, tree, star or multiple star Total cable length max. = 250 m (820 ft)
Data Logger	Data memory up to 520,000 data sets
Radio	Radio transmission Class 1 with a range of 100 m (328 ft); max 300 m (984 ft)
Display	Graphic color display; resolution 320 x 240 pixels; visible area 77 x 64 mm (3.03 x 2.52 in); backlit
Control Keys/Buttons	5 operation keys: 3 master keys for Measurement (M), Calibration (C), Set/System settings (S) 2 function keys for confirmation/switching menu OK (OK) and Escape (ESC) 4 directional buttons for quick selection of software functions
Electrical	100 to 240 VAC (50/60 Hz), 24 VAC/DC
Temperature Conditions	Operating Temperature: -4 to 131 °F (-20 to 55 °C) Storage Temperature: -13 to 149 °F (-25 to 65 °C)
Enclosure	Material: PC-20% (Polycarbonate with 20% fiberglass) Rating: IP-66 (not suitable for conduit connection) Dimensions for 282/284: 144 W x 144 H x 120.2 D mm (5.67 W x 5.67 H x 4.73 D in) Weight for 282/284: 1.2 kg (2.6 lbs) Weight for DIQ/S 284-CR6: 1.7 kg (3.7 lbs)
Warranty	3 years
Module Coupling at Rear	Combined mechanical and electrical connection for docking additional modules; a total of 3 modules as a stacked mounted unit
Cable Feeds	4 screw cable glands M 16 x 105
Terminal Connections	Screw terminal strips; terminal area for solid connectors 0.2 to 4.0 mm for flexible connectors 0.2 to 2.5 mm; accessible through cover Used for connecting sensors or as an input/output or for looping through/branching of the IQ SensorNet cable

IQ SensorNet 282/284 Ordering Information (order modules, cables, sensors separately)*

Model #	Item #	Description
Controller for up to 2 sensors:		
DIQ/S 282-CR3	472 110Y	Controller for up to 2 sensors, with 3 analog outputs and 3 relays
DIQ/S 282-PR	472 111Y	Controller for up to 2 sensors, with PROFIBUS connection, 3 relays
DIQ/S 282-MOD	472 112Y	Controller for up to 2 sensors, with MODBUS connection, 3 relays
DIQ/S 282-CR3-E	472 113Y	Controller for up to 2 sensors, with 3 analog outputs, 3 relays, with RJ45 interface for internet access and remote control
DIQ/S 282-EF	472 114Y	Controller for up to 2 sensors, 3 relays, Ethernet fieldbuses, internet access and remote control
Controller for up to 4 sensors:		
DIQ/S 284-CR6	472 130Y	Controller for up to 4 sensors, with 6 analog outputs, 6 relays
DIQ/S 284-PR	472 131Y	Controller for up to 4 sensors, with PROFIBUS connection, 3 relays
DIQ/S 284-MOD	472 132Y	Controller for up to 4 sensors, with MODBUS connection, 3 relays
DIQ/S 284-CR6-E	472 133Y	Controller for up to 4 sensors, with 6 analog outputs, 6 relays, with RJ45 interface for internet access and remote control
DIQ/S 284-EF	472 134Y	Controller for up to 4 sensors, 3 relays, Ethernet fieldbuses, internet access and remote control

* For 24V AC/DC power, please contact YSI

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