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).

- 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.

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

YSI.com/IQSN282
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 entire system, 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

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

<table>
<thead>
<tr>
<th>Model #</th>
<th>Item #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller for up to 2 sensors:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIQ/S 282-CR3</td>
<td>472 110Y</td>
<td>Controller for up to 2 sensors, with 3 analog outputs and 3 relays</td>
</tr>
<tr>
<td>DIQ/S 282-P</td>
<td>472 111Y</td>
<td>Controller for up to 2 sensors, with PROFIBUS connection, 3 relays</td>
</tr>
<tr>
<td>DIQ/S 282-MOD</td>
<td>472 112Y</td>
<td>Controller for up to 2 sensors, with MODBUS connection, 3 relays</td>
</tr>
<tr>
<td>DIQ/S 282-CR3-E</td>
<td>472 113Y</td>
<td>Controller for up to 2 sensors, with 3 analog outputs, 3 relays, with RJ45 interface for internet access and remote control</td>
</tr>
<tr>
<td>DIQ/S 282-E</td>
<td>472 114Y</td>
<td>Controller for up to 2 sensors, 3 relays, Ethernet fieldbuses, internet access and remote control</td>
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<tr>
<td>Controller for up to 4 sensors:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIQ/S 284-CR6</td>
<td>472 130Y</td>
<td>Controller for up to 4 sensors, with 6 analog outputs, 6 relays</td>
</tr>
<tr>
<td>DIQ/S 284-P</td>
<td>472 131Y</td>
<td>Controller for up to 4 sensors, with PROFIBUS connection, 3 relays</td>
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* For 24V AC/DC power, please contact YSI

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