



# IQ SensorNet 2020 3G

CONTINUOUS WATER QUALITY MONITORING CONTROLLER



**Modular Expansion**

The 2020 3G can accommodate 1-20 sensors and up to 48 output channels with a single controller.

## A customizable, scalable solution for process control!

YSI's **IQ SensorNet 2020 3G controller** is the brain of the IQ SensorNet system of sensors and analyzers. With a large graphic color display, intuitive menu structure, and simple navigation pad, managing your network of process instrumentation is easier than ever. Easily expand your network with this modular, plug-and-play system and measure up to 20 sensors per network.



### System Redundancy

Multiple controllers can be used in one system to provide a backup if the main controller fails



### Versatile Portability

Take to any measurement location and attach to any IQ SensorNet MIQ module within the system



### Industry-Leading Warranty

Comes with a standard 3-year warranty or an optional 5-year warranty



### Robust Design

Housed in a waterproof enclosure to operate in the harshest conditions



# IQ SensorNet 2020 3G CONTINUOUS WATER QUALITY MONITORING CONTROLLER

SPEC SHEET W125-01-ENG

## System Parameters:

**Dissolved Oxygen**  
(optical or electrochemical)

**pH**

**ORP/Redox**

**Conductivity/Salinity**

**Temperature**

**Turbidity**

**TSS** (total suspended solids)

**Ammonium**  
(ion selective electrode or colorimetric method)

**Nitrate**

**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)

**Orthophosphate**

## 2020 3G Terminal/Controller Specifications

<b>Certifications</b>	ETL, cETL (conforms with relevant UL and Canadian standards), CE
<b>Electromagnetic Compatibility</b>	EN 61326, Class B; FCC Class A, EMC for indispensable operation
<b>Integrated Overvoltage Protection</b>	Enhanced overvoltage protection for the entire system, implemented in each component
<b>Radio</b>	Radio transmission Class 1 with a range of 100 m (328 ft); max 300 m (984 ft)
<b>Module Coupling at Rear</b>	Combined mechanical and electrical connection for rapid coupling to modules; no wiring required
<b>USB Interface</b>	USB-A (host)
<b>Display</b>	Graphic color display; resolution 320 x 240 pixels; visible area 114 x 86 mm (4.49 x 3.39 in); backlit
<b>Control Keys/Buttons</b>	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 and input of alphanumeric values
<b>Datalogger</b>	MIQ/TC 2020 3G; data memory for up to 525,600 data sets
<b>Electrical Supply</b>	Directly via the IQ SensorNet when coupled to an MIQ module
<b>Temperature Conditions</b>	Operating Temperature: -4 to 131 °F (-20 to 55 °C) Storage Temperature: -13 to 149 °F (-25 to 65 °C)
<b>Enclosure Rating</b>	IP-66, equivalent to NEMA 4X (not suitable for conduit connection)
<b>Material</b>	ASA (Acrylonitrile-Styrol-Acryloesterpolymer)
<b>Dimensions</b>	210 W x 170 H x 40 D mm (8.27 W x 6.69 H x 1.57 D in)
<b>Weight</b>	0.9 kg (1.98 lbs)
<b>Warranty</b>	3 years

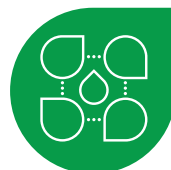
## 2020 3G Module (MIQ) Specifications

<b>Module Coupling at Front</b>	Combined mechanical and electrical connection for rapid docking and removal of the terminal and docking additional modules
<b>Module Coupling at Rear</b>	Combined mechanical and electrical connection for docking additional modules; a total of 3 modules as a stacked mounted unit
<b>Cable Feeds</b>	4 screw cable glands M 16 x 105
<b>Terminal Connections</b>	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
<b>Additional Functions</b>	Two LEDs (yellow and red) for monitoring the operating voltage; lightning protection; connection resistant to reversed polarity; integrated local identity; integrated switchable terminal resistor (SN terminator)
<b>Enclosure Rating</b>	IP-66, equivalent to NEMA 4X (not suitable for conduit connection)
<b>Material</b>	PC 20% GF (Polycarbonate with 20% fiberglass)
<b>Dimensions</b>	144 W x 144 H x 52 D mm (5.67 W x 5.67 H x 2.05 D in)
<b>Weight</b>	1.0 kg (2.2 lbs)
<b>Warranty</b>	3 years



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