



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

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

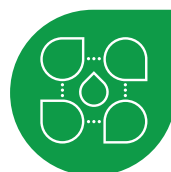
2020 3G Module (MIQ) Specifications

Module Coupling at Front	Combined mechanical and electrical connection for rapid docking and removal of the terminal and docking additional modules
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
Additional Functions	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)
Enclosure Rating	IP-66, equivalent to NEMA 4X (not suitable for conduit connection)
Material	PC 20% GF (Polycarbonate with 20% fiberglass)
Dimensions	144 W x 144 H x 52 D mm (5.67 W x 5.67 H x 2.05 D in)
Weight	1.0 kg (2.2 lbs)
Warranty	3 years



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