



IQ SensorNet 2020 3G

CONTINUOUS WATER QUALITY MONITORING CONTROLLER



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

Advanced process monitoring and control for aquaculture

YSI's **IQ SensorNet 2020 3G controller** is the brain of the IQ SensorNet system of sensors and analyzers. The benefits of monitoring your aquaculture system include better visibility and management of your water quality, less grab sampling, process control capabilities, and peace of mind knowing your fish have a healthy environment to grow.



System Redundancy

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



Remote Real-Time Monitoring 24/7

Access live sensor data anywhere, anytime with the **IQSN Mobile** monitoring app on iOS and Android devices.



Robust Design

Housed in a waterproof enclosure to operate in the harshest conditions.



Protected Investment

Backed by a 3-year controller warranty and a 2-year sensor warranty.



IQ SensorNet 2020 3G CONTINUOUS WATER QUALITY MONITORING CONTROLLER

SPEC SHEET XA00267

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*

+ More Parameters

* \leq 2% salinity



IQ SensorNet provides continuous monitoring, control and alarming, ensuring that fish are protected.

2020 3G Terminal/Controller Specifications

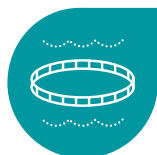
Certifications	ETL, cETL (conforms with relevant UL and Canadian standards), CE
Electromagnetic Compatibility	EN 61326, Class B; FCC Class A, EMC for indispensable operation
Integrated Overvoltage Protection	Enhanced overvoltage protection for the entire system, implemented in each component
Radio	Radio 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

YSI, a Xylem brand
1725 Brannum Lane
Yellow Springs, OH 45387

+1.937.767.7241
info@ysi.com
YSI.com



YSI
Aquaculture
Proven. Trusted.



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