YSI IQ SensorNet Wireless Module

Continuous Water Quality Monitoring for Process Control

The YSI IQ SensorNet MIQ/WL wireless modules offer cable-free communication for both the 282/284 and 2020 3G networks. The MIQ/WL can transmit data up to 100 meters (328 feet) with each primary module being able to communicate with any number of secondary modules (limited only by the spatial characteristics of the site). The MIQ/WL makes installation easy, reduces cable/conduit requirements and allows you to measure in challenging locations where cable runs may be difficult. Get the measurement you need in the location you need it with IQ SensorNet and the MIQ/WL modules.

- Easy installation - modules are pre-configured in pairs (primary and secondary). Secondary modules available for expansion of radio networks
- Expandable network - up to eight primary radio modules per IQ Network
- Reliable communication with secure data transfer
- Compatible for IQ SensorNet System 282/284 and 2020 3G networks
- Software tool monitors signal strength (for use with the 2020 3G and for signal interruptions)
- Uses omni-antenna radio technology with 2.4 GHz ISM band transmission
- Radio module has integrated power supply (110-240 VAC or 24 VDC)
- Integrated power supply provides 7 Watts, which can power most sensors. Additional power supply modules available as needed
- Includes (3) IQ SensorNet connections
- 3-year warranty on modules

IQ SensorNet Parameters:

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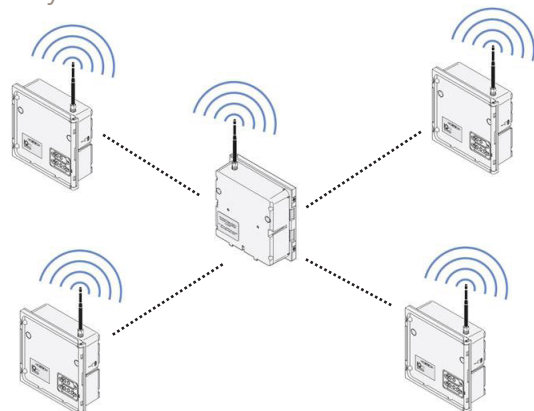BOD (biochemical oxygen demand)*
Sludge Level
Chloride
Nitrite
Phosphorus

* ultrasonic cleaning for sensors

282 Terminal Stacked on Modules

YSI.com/IQSN-WL

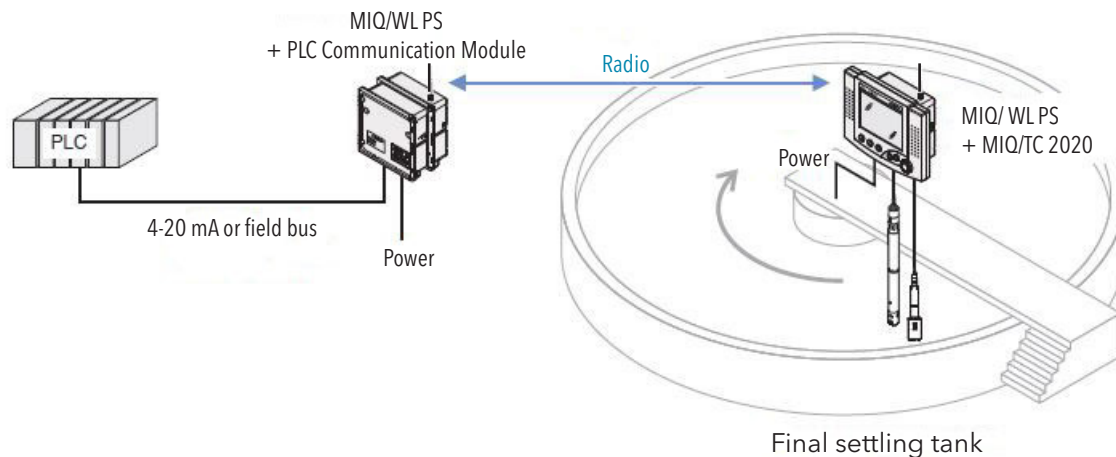## IQ SensorNet MIQ/WL PS Module Specifications

Certifications	cETL (conforms with relevant UL and Canadian standards), CE
Compliance	FCC, part 15, Class B
	Industry Canada (IC): CAN, ICES-3(B), NMB-3(B)
Radio	2.4 GHz ISM band with a maximum range of 100 m (328 ft); minimum distance 5 m (16.4 ft)
Power Supply	Integrated 100 to 240 VAC (50/60 Hz), 24 V AC/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, equivalent to NEMA 4X
	Dimensions (module only): 144 W x 144 H x 52.2 D mm (5.67 W x 5.67 H x 2.06 D in)
Warranty	3 years
Module Coupling at Front	Combined mechanical and electrical connection for rapid docking and removal of the terminal and docking additional modules; no wiring required
Module Coupling at Rear	Combined mechanical and electrical connection for docking additional modules; a total of 3 modules as a stacked mounted unit; no wiring required
Cable Feeds	4 screw cable glands M 16 x 105; for sensors, conduit adapters available
IQ SensorNet Connections	3 available; accessible through cover
	Used for connecting sensors or as an input/output for looping through/branching of the IQ SensorNet cable
Additional Functions	Status LEDs - green, yellow, red indicate communication status, i.e., data received, data transmitted, no connection
	Integrated switchable terminal resistor (SN terminator)

IQ SensorNet MIQ/WL PS Ordering Information

MIQ/WL PS SET*	Wireless communication module set, for cable-free communication with the IQ SensorNet 282/284 and 2020 3G controllers.
Item #480 025Y	Includes 2 MIQ/WL PS radio modules, pre-configured as Primary- and Secondary-module. Extension with MIQ/WL PS possible.
MIQ/WL PS*	Wireless communication module, for cable-free communication with the IQ SensorNet 282/284 and 2020 3G controllers.
Item #480 023Y	Includes 1 MIQ/WL PS radio module, pre-configured as Secondary for extension of radio network.

*Not compatible with MIQ/Blue PS SET

Visit YSI.com/IQ for additional information on the IQ SensorNet system.

Basin with rotating bridge

a **xylem** brand