metrinet
multi-parameter monitoring

Water Quality Measurement and Logging

MetriLog Data Logger

DESCRIPTION

Temporary measurement of water quality parameters such as chlorine, pH, conductivity, turbidity, dissolved oxygen and other parameters can be useful in evaluating distribution system problems. Having a battery-operated data logger that can do a variety of jobs by simply substituting the needed sensor allows a variety of problems to be investigated.

Badger Meter has developed a new data logging platform that can use any of our MetriNet water quality sensors, making it the most flexible tool available for gathering water quality data.

The system is a compact, standalone unit that can be used virtually anywhere. Sensor, electronic data logger and flowcell are combined in a submersible case with inlet and outlet fittings for sample connection on the side. Even sample flow control is included as part of the flow assembly.

FEATURES

- Battery powered measurement for up to 3 months
- Interchangeable sensors for 15 different parameters
- Flowcell with 200 mL/min (3.2 gph) flow control
- Sample inlet pressure stable/fixed, 10…50 psi (0.7...3.4 bar) 20…30 psi recommended
- Programmable data storage interval from 0.1…60 minutes
- 4 GB of data storage
- Free software for data download; USB download cable supplied
- CSV data files for spreadsheet manipulation

Badger Meter

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Product Data Sheet

SPECIFICATIONS

Description	Water quality logging
Typical Applications	Monitoring of potable water distribution systems
Analysis Method	Various depending on parameter
Data Log Frequency	0.1…60 minutes, programmable
Data Storage	4 GB
Power	Three internal AA alkaline batteries
Display	128 × 64 graphical OLED
Environmental Rating	Nema 6 (IP68) submersible
Size	Approx. 11 × 7 × 4 in. (279 × 178 × 102 mm)
Sample Inlet Pressure	Stable/fixed, 10…50 psi (0.7...3.4 bar) 20…30 psi recommended
Sample Temperature	35.6…104° F (2…40° C)
Suspended Solids	Sample filtered to less than 100 microns, if needed
Sample Flow Rate	Fixed 200 mL/min (3.2 gph)
Inlet and Outlet Connection	Quick-connect valved fittings for 1/4 in. O.D. tubing

AVAILABLE SENSORS

Part No.	Measurement	Range	Sensitivity
00-1847	Free Chlorine	0…5.00 ppm	0.01 ppm
00-1854	Combined Chlorine	0…5.00 ppm	0.01 ppm
00-1855	Total Chlorine	0…5.00 ppm	0.01 ppm
00-1849	pH	2…12 pH	0.01 pH
00-1848	Conductivity	0…2000 µS	1 µS
00-1850	ORP	0…1000 mV	1 mV
00-1851	Dissolved Oxygen	0…20.00 ppm	0.01 ppm
00-1856	Fluoride	0.1…10.00 ppm	0.01 ppm

Part No.	Measurement	Range	Sensitivity
00-1852	Dissolved Ozone	0…5.00 ppm	0.01 ppm
00-1857	Chlorine Dioxide	0…5.00 ppm	0.01 ppm
00-1858	Peracetic Acid	0…200 ppm	1 ppm
00-1859	Hydrogen Peroxide	0…20.00 ppm	0.01 ppm
00-1853	Turbidity	0…40.00 NTU	0.01 NTU
00-1864	Pressure	0…300 PSIG	1 PSIG
00-1863	4E Conductivity	0…2000 mS	1 µS
00-1861	Nitrite (NO_2)	0…2.000 ppm	0.001 ppm

ORDERING INFORMATION

00-1919	MetriLog Data Logger with case and clear flowcell. Order sensors separately.
00-1923	MetriLog Data Logger with case and black flowcell. For turbidity sensor only.
00-1920	Clear flowcell for MetriLog (all sensors except turbidity).
00-1921	Black flowcell for MetriLog Turbidity.
05-0166	Inlet Assy with mesh filter, PRV valve and ball valve shut-off

NOTE: Units intended for turbidity require a black flowcell that is not compatible with other sensors. If multiple sensor use that includes turbidity is anticipated, a second flowcell is required and must be ordered.