HOBO MicroRX
Water Level Station

Water Level Data Anywhere, Anytime? You Got It.

The new cellular, web-enabled HOBO MicroRX station is partnered with Onset's own water level sensor to deliver water level and flow monitoring data to cloud-based HOBOlink software. Spend more time focusing on results, and less time on configuration and data access.

Supported Measurements:

Water Level, Flow, Temperature, Relative Humidity, Dew Point, Solar Radiation, PAR, Rainfall, Wind Speed, Wind Direction, Soil Moisture, Barometric Pressure, Leaf Wetness, 4-20mA, Voltage Input, Pulse Input

Key Advantages:

• Eliminate complicated manual calculations with pre-programmed water flow formulas
• Act quickly in response to alarms triggered at time of measurement for water flow and accumulated rainfall
• Reduce maintenance with the non-vented water level sensor
• Deploy in harsh conditions with a tough, compact station design
• Monitor multiple environmental parameters with the flexibility of Onset's suite of smart sensors

Minimum System Requirements:

HOBOlink Data Plan*   Sensor   Cable

Powerful Web-Based Access to your Data

View and manage your water level measurements, configure alarms, create custom dashboards, and view current and historical data on any device with an internet connection through Onset's cloud-based HOBOlink software.

Multi-Environment Water Level Monitoring

• Stormwater Monitoring
• Floodwater Mitigation
• Irrigation Control
• Hydrological Studies

*) Für die Nutzung einer MicroRX Water Level Station ist der Abschluss eines Serviceplans obligatorisch, siehe https://www.metrics24.de/RX2100-HOBOlink

Reliable Water Level Monitoring

With a tough, compact station design and durable water level sensor, you can monitor water level in the harshest conditions.

- Mounting tabs for simple installation
- Non-vented, durable ceramic sensor
- Integrated barometric pressure sensor
- Robust IP66/NEMA 4X enclosure
- Built-in solar panel or battery power
- Five inputs for plug-and-play smart sensors
- On-board LCD display
- Interchangeable, Kevlar-reinforced cable

▶ For complete information and accessories, please visit: **www.onsetcomp.com**

Water Level Sensors

Part number	MX2001-01-SS and -Ti	MX2001-02-SS	MX2001-03-SS	MX2001-04-SS and -Ti
Range	Approx. 0 to 9 m (0 to 30 ft)	Approx. 0 to 30.6 m (0 to 100 ft)	Approx. 0 to 76.5 m (0 to 251 ft)	Approx. 0 to 4 m (0 to 13 ft)
Calibrated Range (0° to 40°C (32° to 104°F)	69 to 207 kPa (10 to 30 psia)	69 to 400 kPa (10 to 58 psia)	69 to 850 kPa (10 to 123.3 psia)	69 to 145 kPa (10 to 21 psia)
Accuracy (Typical)	±0.05% FS, 0.5 cm (0.015 ft)	±0.05% FS, 1.5 cm (0.05 ft)	±0.05% FS, 3.8 cm (0.125 ft)	±0.075% FS, 0.3 cm (0.01 ft)
Resolution	0.02 kPa (0.003 psi), 0.21 cm (0.007 ft) water	<0.04 kPa (0.006 psi), 0.41 cm (0.013 ft) water	<0.085 kPa (0.012 psi), 0.87 cm (0.028 ft) water	<0.014 kPa (0.002 psi), 0.14 cm (0.005 ft) water

Data Loggers

Part number	RX2103	RX2104
Operating Range	-40° to 60°C (-40° to 140°F)	-20° to 60°C (-4° to 140°F)
Smart Sensor Connectors	5	
Smart Sensor Network Cable Length	100 m (328 ft) maximum	
Logging Rate	1 minute to 18 hours	
Alarm Notification Latency	Logging interval plus 2–4 minutes, typical	
Wireless Radio	GSM/GPRS/EDGE: Quad band 850/900/1800/1900 MHz UMTS/HSPA+: Seven band 800/850/900/1800/1900/2100 MHz LTE: Twelve Band 700/800/850/900/1800/1900/2100/2600 MHz	
Memory	16 MB, 1 million measurements, continuous logging	
Barometric Pressure		
Operating Range	66 to 107 kPa (9.57 to 15.52 psia)	
Temperature Calibrated Range	-20 to 50°C (-4 to 122°C)	
Accuracy	±0.2 kPa (±0.029 psi) over full temperature range at fixed pressure; maximum error ±0.5% FS	
Battery Type	6 AA 1.5 V lithium batteries or optional AC power adapter (P-AC-1)	Integrated 1.7 watt solar panel and NiMH rechargeable battery pack
Battery Life	Daily connections: 1 year with 1 minute logging Hourly connections and 1 minute logging: 3 months	Typical 3–5 years when operated in the temperature range -20° to 40°C (-4° to 104°F)
Smart Sensor Data Channels	Maximum of 15	
Materials	Outer enclosure: Polycarbonate/PBT blend with brass inserts; Interior: Polycarbonate/PBT; Gasket: Silicone foam. Cable channel: Santoprene™ TPE	
Dimensions	19.95 x 13.68 x 7.49 cm (7.85 x 5.39 x 2.95 in.)	
Weight	678 g (23.9 oz)	
Environmental Rating	Weatherproof enclosure, NEMA 4X and IP66	
CE Compliant	Yes	