

#### **RX2100 Data Logger**

**MicroRX Station** 

The compact and rugged HOBO MicroRX Station is an easy-todeploy, low-cost cellular solution for long-term, reliable field monitoring. Two power source options are available: a solar panel for extended deployments, and user-replaceable batteries for flexible mounting in covered or protected locations. The station includes inputs for up to five of Onset's research-grade plug-andplay sensors, and can be ordered with an additional water level sensor input with integrated flow conversion. Configurable stationside alarms trigger immediate notifications of critical conditions, and Onset's cloud-based HOBOlink platform makes it easy to view, access, and share data.



#### Supported Measurements:

Absolute Pressure, 4-20mA, AC Current, AC Voltage, Amp Hour (Ah), Barometric Pressure, DC Voltage, Evapotranspiration, Kilowatt Hours (kWh), Leaf Wetness, Light Intensity, PAR, Power Factor (PF), Pulse Input, Rainfall, Relative Humidity, Soil Moisture, Temperature, Volt-Amp Reactive hour, Volt-Amps (VA), Water Level, Watt Hours (Wh), Watts (W) and Wind

#### Key Advantages:

- Compact size for easy deployment
- Robust, weatherproof IP66/NEMA 4X enclosure
- Two power options:
  - Integrated 1.7W solar panel with rechargeable battery pack
    - 5W and 15W external solar panels can be added (RX2102 or RX2104 only)
  - User-replaceable AA lithium batteries
- Inputs for five plug-and-play smart sensors
- Optional water level sensor input (RX2103 and RX2104 only)
- · Built-in LCD confirms proper setup and operation
- · Integrated mounting tabs for use with screws, zip ties, or U-bolts
- · Station-side alarms, including water flow and accumulated rainfall
- Up to 10-minute connection rates via 4G cellular data plans
- Cloud-based monitoring and data access through HOBOlink

### 1.800.561.8187



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#### **RX2100 Data Logger Specifications**

Operating Range	RX2101 and RX2103: -40° to 60°C (-40° to 140°F) RX2102 and RX2104: -20° to 60°C (-4° to 140°F)
Smart Sensor Connectors	5
Smart Sensor Network Cable Length	100 m (328 ft) maximum
Smart Sensor Data Channels	Maximum of 15 (some smart sensors use more than one data channel; see sensor manual for details)
Logging Rate	1 minute to 18 hours
Time Accuracy	±8 seconds per month in 0° to 40°C (32°F to 104°F) range; ±30 seconds per month in -40° to 60°C (-40° to 140°F) range
Battery Type/Power Source	RX2102 and RX2104: Integrated 1.7 watt solar panel and NiMH rechargeable battery pack; optional AC power adapter (P-AC-1) or external solar panel (SOLAR-xW) can be used in place of integrated solar panel RX2101 and RX2103: 6 AA 1.5 V lithium batteries or AC power adapter (P-AC-1)
Battery Life	<ul> <li>RX2102 and RX2104 Battery Life:</li> <li>Typical 3–5 years when operated in the temperature range -20° to 40°C (-4° to 104°F); operation outside this range will reduce the battery service life.</li> <li>Maximum connection rates with built-in solar panel, in full sun: <ul> <li>10 minute connections year round for latitudes less than ±40°</li> <li>10 minute connections through three seasons in other regions, reduced to 30 minute connections in winter</li> </ul> </li> <li>Maximum connection rates with external 5W or 15W solar panels: <ul> <li>10 minute connections year round, in full sun</li> <li>Connection rate with external solar panels may be less if deployed in partial sun</li> <li>Battery life without solar recharging, with hourly connections and</li> <li>minute logging:</li> <li>RX2102 a months</li> </ul> </li> <li>RX2101 and RX2103 Battery Life:</li> <li>Battery life with daily connections: <ul> <li>RX2101: 1 year with 1 minute logging</li> <li>RX2101: 1 year with 2 minute logging</li> <li>Battery life with hourly connections and 1 minute logging:</li> <li>RX2101: 3 months</li> <li>RX2101: 3 months</li> <li>RX2103: 2 months</li> </ul> </li> </ul>
Memory	16 MB, 1 million measurements, continuous logging
Alarm Notification Latency	Logging interval plus 2–4 minutes, typical
Enclosure Access	Hinged door secured by two latches with eyelets for use with user-supplied padlocks
LCD	LCD is visible from 0° to 50°C (32° to 122°F); the LCD may react slowly or go blank in temperatures outside this range
Materials	Outer enclosure: Polycarbonate/PBT blend with brass inserts; Interior: Polycarbonate/PBT; Gasket: Silicone foam; Cable channel: Santoprene™ TPE; U-Bolts (not included): Steel with zinc dichromate finish
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)
Mounting	Optional U-bolts are compatible with masts up to 4.14 cm (1.63 in.) mast diameter; can also be mounted with zip ties or mounted to a flat surface with screws
Environmental Rating	Weatherproof enclosure, NEMA 4X and IP66 (requires proper installation of cable channel system)

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Antenna	4G LTE
CE	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)
FC	FCC ID QIPPLS62-W, IC ID:7830A-PLS62W



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