

Call our friendly team on +44 (0)1243 558270

Tempcon Instrumentation Ford Lane Business Park Ford West Sussex BN18 0UZ, UK www.tempcon.co.uk



HOBO MicroRX Cellular Web-enabled Monitoring Station (Wired Sensors)

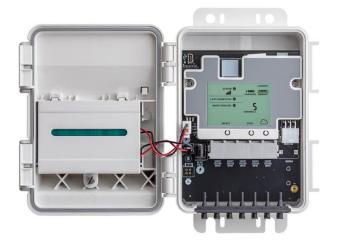
Product Images















Short Description

An easy-to-deploy, low-cost cellular field monitoring solution. With a compact size and rugged design, the MicroRX Station offers long-term, reliable environmental monitoring.

Description

The new web-enabled HOBO® MicroRX Station is a rugged, easy-to-deploy, low-cost cellular remote field monitoring solution. With a compact size and rugged design, the MicroRX Station offers long-term, reliable environmental monitoring. Configurable station-side alarms provide immediate notification of critical conditions, and Onset's cloud-based LI-COR Cloud platform makes it easy to view, access, and share your data.

Key Features

- Monitor multiple environmental parameters, with inputs for up to five plug-and-play smart sensors (see Measurements below)
- Powerful web-based access to your data with LI-COR Cloud web-based software: view and manage your water level measurements, configure alarms, create custom dashboards, and view your data on any device with an internet connection.
- Station-side alarms triggered at time of measurement
- Real-time monitoring with up to 10-minute connection rates via 4G cellular data plans.
- Compact IP66/NEMA 4X enclosure
- Two power options:
 - Model RX2102 Integrated 1.7 W solar panel with rechargeable battery pack (for extra solar power, a 5W or 15W external solar panel can be added to the RX2102)
 - Model RX2101 User-replaceable AA lithium batteries.

Requires an RX data plan (see options above), which must be renewed annually. The station comes with a SIM card installed; you can use your own if needed.

Note: If you need to monitor water level/flow, see MicroRX Station RX2100-WL.

Additional Information

United States	
To see the full specification	ns for this product, please see the product manual under the Resources tab.
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	RX2102 and RX2104 Battery Life: 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. Maximum connection rates with built-in solar panel, in full sun: -10 minute connections year round for latitudes less than ±40° -10 minute connections through three seasons in other regions, reduced to 30 minute connections in winter Maximum connection rates with external 5W or 15W solar panels: -10 minute connections year round, in full sun - Connection rate with external solar panels may be less if deployed in partial sun Battery life without solar recharging, with hourly connections and 1 minute logging: - RX2102: 3 months - RX2104: 2 months - RX2101 and RX2103 Battery Life: - Battery life with daily connections: - RX2101: 1 year with 1 minute logging - RX2103: 1 year with 2 minute logging - Battery life with hourly connections and 1 minute logging: - RX2101: 3 months - RX2103: 2 months - RX2103: 2 months - RX2103: 2 months - RX2103: 2 months - RX2104: 2 months - RX2105: 2 months - RX2106: 2 months - RX2106: 3 months - RX2107: 3 months - RX2108: 2 months - RX2108: 2 months - RX2108: 3 months - RX2109: 4 months - RX2108: 4 months - RX2109: 4 months - RX2109: 5 months - RX2109: 6 months - RX2109: 6 months - RX2109: 7 months - RX2109: 9 mon
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)
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
Antenna	4G LTE
HOBO RX2101/RX2102 Mic Grease packet Cable ties Screws and washers Six AA lithium batteries (RX Battery pack (RX2102 solar	(2101 battery-powered station)
НОВО	
Environmental (Outdoor),	Field Research, Weather Monitoring
Wetness, Light Intensity, PA	arometric Pressure, Current AC, Differential Pressure, Humidity, kWh, Leaf AR/Quantum Light, pH, Power Factor (PF), Pressure, Pulse, Rainfall, Soil olt-Amp Reactive hour, Volt-Amps (VA), Voltage AC, Voltage DC, Watt Hours (Wh), Wind Speed
	To see the full specification Operating Range Smart Sensor Connectors Smart Sensor Network Cable Length Smart Sensor Data Channels Logging Rate Time Accuracy Battery Type/Power Source Battery Life Memory Alarm Notification Latency Enclosure Access LCD Materials Dimensions Weight Mounting Environmental Rating Wireless Radio Antenna HOBO RX2101/RX2102 Mic Grease packet Cable ties Six AA lithium batteries (R) Battery pack (RX2102 solar HOBO Environmental (Outdoor), 4-Venne, Am phour (Ash), Phomosture, Temperature, Potential (Potential), Phomosty, Potential (Potential), Phomos

Additional Options

Select Station Model	MicroRX Station RX2101 - battery powered
	MicroRX Station RX2102 - built-in solar panel
Data Plan (required)	Basic 4G Plan - supports up to 10 measurements and 1 hour logging interval (RX-Basic)
	Standard 4G Plan - supports up to 25 measurements and 5 minute logging interval (RX-Standard)
	Premium 4G Plan - supports device's maximum number of sensors and logging rate (RX-Premium)
Wired Sensors (Hold down Ctrl to select multiple options)	Barometric Pressure Smart Sensor (S-BPB-CM50)
	Leaf Wetness Smart Sensor (S-LWA-M003)
	Solar Radiation (Silicon Pyranometer) Smart Sensor (S-LIB-M003)
	Solar Radiation Sensor Bracket (M-LBB)
	Davis 0.2 mm Resolution Rain Gauge Smart Sensor (S-RGF-M002)
	0.2 mm Resolution Rainfall Smart Sensor (2m cable) (S-RGB-M002)
	EC-5 Soil Moisture Smart Sensor (S-SMC-M005)
	10HS Soil Moisture Smart Sensor (S-SMD-M005)
	12-Bit Temperature Smart Sensor - 2m Cable (S-TMB-M002)
	12-Bit Temperature Smart Sensor - 6m Cable (S-TMB-M006)
	12-Bit Temperature Smart Sensor - 17m Cable (S-TMB-M017)
	12-bit Temperature/Relative Humidity Smart Sensor - 2m cable (S-THC-M002)
	12-bit Temperature/Relative Humidity Smart Sensor (8m cable) (S-THC-M008)
	Solar Radiation Shield for Temp/Hum Sensor
	Davis Wind Speed and Direction Smart Sensor (S-WCF-M003)
	Ultrasonic Wind Speed & Direction Smart Sensor (S-WCG-M003)
	Full Crossarm for Wind Speed/Direction Sensors (M-CAA)

Additional Power Options	15 Watt Solar Panel (SOLAR-15W)
	5 Watt Solar Panel (SOLAR-5W)
	Power Adapter (AC) (SKU: P-AC-1)
Mounting Options	HOBO 2-Metre Tripod Kit (M-TPB-KIT)
	HOBO 3-Metre Tripod Kit (M-TPA-KIT)