

RX2105

## MicroRX Indoor Station

An easy-to-deploy, low-cost, cellular monitoring station for long-term, reliable monitoring in warehouses, cold storage facilities, data centers, museums, and other buildings.

### Important Information

Requires an RX data plan and an account for the LI-COR Cloud software platform to access data with a web browser or mobile device. [LEARN MORE.](#)



Compatible with  
**LI-COR Cloud<sup>®</sup> IoT Platform**

## Supported Measurements

4-20mA, AC Current, AC Voltage, Amp Hour (Ah), Amps (A), DC Voltage, Event, Kilowatt Hours (kWh), Kilowatts (kW), Light Intensity, Power Factor (PF), Pulse Input, Relative Humidity, Temperature, Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps (VA), Volts (V), Water Flow, Watt Hours (Wh), Watts (W)

## Features

- Compact size and integrated HOBOnet Manager for easy deployment
- Scalable, with option to connect up to 50 wireless sensors; 600 m line-of-sight range
- Inputs for five plug-and-play sensors
- Includes AC power adapter and user-replaceable AA lithium batteries for battery back-up
- Built-in LCD confirms proper setup and operation
- Up to 10-minute connection rates via 4G cellular data plans
- Cloud-based monitoring and data access through HOBOLink
- Integrated mounting tabs for use with screws, zip ties, or U-bolts

## What's in the box

- HOBOR RX2105 MicroRX Station
- Manager
- Cable
- Grease packet
- Cable ties
- Screws and washers
- Six AA lithium batteries

## Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

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Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

## MicroRX Indoor Station (RX2105) Specifications

Station	
<b>Operating Range</b>	RX2105: -40° to 60°C (-40° to 140°F)
<b>Smart Sensor Connectors</b>	5
<b>Smart Sensor Network Cable Length</b>	100 m (328 ft) maximum
<b>Smart Sensor Data Channels</b>	Maximum of 15 (some smart sensors use more than one data channel; see sensor manual for details)
<b>Logging Rate</b>	1 minute to 18 hours
<b>Time Accuracy</b>	±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
<b>Battery Type/Power Source</b>	RX2105: AC power adapter (P-AC-1) and 6 AA 1.5 V lithium batteries
<b>Battery Life/Power Source</b>	RX2105: Runs continuously with the included AC adapter. Batteries can be used as a backup to AC power; battery life of 3 months with 1 minute logging and daily connections or 2 months with 1 minute logging and hourly connections, and with approximately 10 motes. Note: Deployments in areas with weak cellular strength could reduce battery life.
<b>Alarm Notification Latency</b>	Logging interval plus 2-4 minutes, typical
<b>Enclosure Access</b>	Hinged door secured by two latches with eyelets for use with user-supplied padlocks
<b>LCD</b>	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
<b>Materials</b>	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
<b>Dimensions</b>	19.95 x 13.68 x 7.49 cm (7.85 x 5.39 x 2.95 in.); see diagrams at left
<b>Weight</b>	678 g (23.9 oz)
<b>Mounting</b>	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
<b>Environmental Rating</b>	Weatherproof enclosure, NEMA 4X and IP66 (requires proper installation of cable channel system)
<b>Wireless Radio</b>	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
<b>Antenna</b>	4G LTE
Manager	

<b>Operating Range</b>	-25° to 60°C (-13° to 140°F)
<b>Radio Power</b>	12.6 mW (+11 dBm) non-adjustable
<b>Transmission Range</b>	Reliable connection to 457.2 m (1,500 ft) line of sight at 1.8 m (6 ft) high Reliable connection to 609.6 m (2000 ft) line of sight at 3 m (10 ft) high
<b>Wireless Data Standard</b>	IEEE 802.15.4
<b>Radio Operating Frequencies</b>	RX210x-922: 916-924 MHz RX210x-921: 921 MHz RX210x-900: 904-924 MHz RX210x-868: 866.5 MHz
<b>Modulation Employed</b>	OQPSK (Offset Quadrature Phase Shift Keying)
<b>Data Rate</b>	Up to 250 kbps, non-adjustable
<b>Duty Cycle</b>	<1%
<b>Maximum Number of Motes</b>	50 motes per one HOBOnet wireless sensor network
<b>Power Source</b>	Powered by the station
<b>Dimensions</b>	Mote: 16.2 x 8.59 x 4.14 cm (6.38 x 3.38 x 1.63 inches) Cable length: 2 m (6.56 ft)
<b>Weight</b>	159 g (5.62 oz)
<b>Materials</b>	PCPBT, silicone rubber seal
<b>Environmental Rating</b>	IP67, NEMA 6

