



An easy-to-deploy, low-cost cellular monitoring station for long-term, reliable monitoring of indoor conditions in warehouses, cold storage facilities, data centers, museums, commercial and residential buildings, and more. This station includes an integrated HOBOnet Manager for easy deployment with wireless HOBOnet sensors. The station also features inputs for up to five of Onset's research-grade plug-and-play sensors. Configurable station-side alarms trigger immediate notifications of critical conditions, and Onset's HOBOLink cloud software platform makes it easy to view, access, and share data.

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

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| • HOBOnet RX2105 MicroRX Station | • Manager |
| • Cable | • Grease packet |
| • Cable ties | • Screws and washers |
| • Six AA lithium batteries | |

Technical Specifications:

Station

Operating Range	:	RX2105: -40° to 60°C (-40° 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	:	RX2105: AC power adapter (P-AC-1) and 6 AA 1.5 V lithium batteries
Battery Life/Power Source	:	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.
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.); see diagrams at left
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
Manager		
Operating Range	:	-25° to 60°C
-13° to 140°F	:	Radio Power
12.6 mW (+11 dBm) non-adjustable	:	Transmission Range 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
Wireless Data Standard	:	IEEE 802.15.4
Radio Operating Frequencies	:	RX210x-922: 916-924 MHz RX210x-921: 921 MHz RX210x-900: 904-924 MHz RX210x-868: 866.5 MHz
Modulation Employed	:	OQPSK (Offset Quadrature Phase Shift Keying)
Data Rate	:	Up to 250 kbps, non-adjustable
Duty Cycle	:	<1%
Maximum Number of Motes	:	50 motes per one HOBOnet wireless sensor network
Power Source	:	Powered by the station
Dimensions	:	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)	:	Weight 159 g (5.62 oz)
Materials	:	PCPBT, silicone rubber seal
Environmental Rating	:	IP67, NEMA 6