

# Detailed Specifications RX3000 HOBO Remote Monitoring Weather Station

**Operating Range:** -40° to 60°C (-40° to 140°F); no remote communications for battery voltage less than 3.9 V DC

**Smart Sensor Connectors:** 10

**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)

**Module Slots:** 2

**Logging Rate:** 1 second (RX3001 and RX3002) or 1 minute (RX3003) 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°F to 140°F) range

**Battery Type/Power Source:** 4 Volt, 10Ahr, rechargeable sealed lead-acid; external power required using one of these options: AC power adapter (AC-U30), solar panel (SOLAR-xW), or external power source 5 V DC to 17 VC DC with external power cable (CABLE-RX-PWR)

**Rechargeable Battery Service Life:** Typical 3-5 years when operated in the temperature range -20° to 40°C (-4°F to 104°F); operation outside this range will reduce the battery service life

**Memory:** 32MB, 2 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 steel hinge pins and brass inserts; Inner enclosure: Polycarbonate; Gaskets: Silicone rubber; Cable channel: EPDM rubber; Cable opening cover: Aluminum with ABS plastic thumb screws; U-Bolts: Steel with zinc dichromate finish

**Size:** 18.6 x 18.1 x 11.8 cm (7.3 x 7.1 x 4.7 in.)

**Weight:** 2.2kg (4.85 lb)

**Mounting:** 3.8 cm (1.5 inch) mast or wall mount

**Environmental Rating:** Weatherproof enclosure, NEMA 4X (requires proper installation of cable channel system)

 The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)  
 Approved for use in the USA and Canada, see last page; contains FCC ID R68XPICOW, IC ID 3867A-XPICOW (RX3002) and FCC ID QIPEHS6, IC ID 7830A-EHS6 (RX3003)

**Wireless Radio:** GSM/GPRS/EDGE: Quad band 850/900/1800/1900 MHz, UMTS/HSPA+: Five band 800/850/900/1900/2100 MHz

**Antenna:** Penta Band

## **Ethernet (RX3001)**

**Connector:** one RJ45/100BaseT

## **Wi-Fi (RX3002)**

**Network Standards:** IEEE 802.11b/gn

**Frequency Range:** 2.412-2.482 GHz

**Antenna Connector:** 1, no diversity supported

**Data Rates:** 1, 2, 5.5, 11 Mbps (802.11b); 6, 9, 12, 18, 24, 36, 48, 54 Mbps (802.11g); 802.11n, HT20 MCS0 (6.5 Mbps) to HT20 MC87 (65 Mbps)



**Number of selectable Radio Sub Channels:** Up to 14 channels; profiles available will include USA, France, Japan, Spain, Canada, and "Other" (multiple countries)

**Radio Modulations:** OFDM, DSSS, DBPSK, DQPSK, CCK, 16QAM, 64QAM

**Security:** WEP 64/128, WPA-PSK, AES end-to-end encryption


**Maximum Receive Level:** -10 dBm (with PER<8%)

**Receiver Sensitivity:** -72 dBm for 54 Mbps, -87 dBm for 11 Mbps, -89 dBm for 5.5 Mbps, -90 dBm for 2.0 Mbps, -92 dBm for 1.0 Mbps

***Cellular (RX3003)***

**Wireless Radio:** GSM/GPRS/EDGE: Quad band 850/900/1800/1900 MHz, UMTS/HSPA+: Five band 800/850/900/1900/2100 MHz

**Antenna:** Penta Band

 The logo for IEI Monitoring & Control Systems features the letters 'IEI' in a large, blue, serif font. To the right of the letters is a green graphic of a mountain range with three peaks. Below the 'IEI' and the mountain graphic, the text 'Monitoring & Control Systems' is written in a smaller, black, sans-serif font.	<p>Sales &amp; Support: (435) 755-0774 <a href="http://www.inmtn.com">http://www.inmtn.com</a> <a href="mailto:info@inmtn.com">info@inmtn.com</a></p>
--	---