

Research-grade weather monitoring with plug and play convenience



The HOBO RX3000 is a research-grade data logging weather station that combines greater measurement flexibility and an on-board LCD display in a rugged, easy-to-deploy package.

Key Advantages:

- Cloud-based data access
- Configure & check on your RX3000 from mobile devices
- Plug-and-play operation
- Flexible support for a broad range of sensors
- LCD display for easy field deployment
- Alarm notifications via text, email
- Rugged double-weatherproof enclosure

Supported Measurements:

- Temperature
- Relative Humidity
- Dew Point
- Solar Radiation
- PAR
- Rainfall
- Wind Speed
- Wind Direction
- Soil Moisture
- Barometric
- Pressure
- Leaf Wetness
- 4-20mA
- Voltage Input
- Pulse Input

Minimum System Requirements:



HOBObconnect



Software



HOBOLink



Power Source



Sensor

- iOS 11, 12 and 13
- Android 7, 8, 9 and 10
- Bluetooth 4.X and up



Technical Specifications:

Part number	RX3001-00-01 (ETH)	RX3002-00-01 (WiFi)	RX3004-00-01 (4G)
Smart Sensor Connectors	10 (up to 15 data channels as some sensors use more than one data channel)		
Maximum Number of Sensors	65 (including 50 wireless sensors)		
Smart Sensor Cable Length	100 m (328 ft) maximum		
Module Slots	2 (for optional Analog, Relay, or RX Manager; see manual for detailed module specification)		
Fastest Logging Rate	1 second	1 second	1 minute
Memory	32 MB, 2 million measurements		
Alarm notification latency	Logging interval plus 2-4 minutes, typical		
Environmental Rating	Weatherproof enclosure, NEMA 4X		
Operating Range	-40° to 60°C (-40° to 140°F)		
Power	Onset solar panel, AC charger or user-provided external power supply is required		
Battery Life	Typical 3-5 years; 4 Volt, 10 AHr, rechargeable sealed lead-acid		
Size	18.6 x 18.1 x 11.8 cm (7.3 x 7.1 x 4.7 in.)		
Weight	2.2 kg (4.85 lb)		
Communications	RJ45/100BaseT	IEEE 802.11 b/g/n	GSM/GPRS/EDGE: Quad band UMTS/HSPA+: Seven band LTE: Twelve Band
CE Compliant	Yes		

Choose Your Solution

	Data Loggers			RX Series Sensors						
	MX	RX3000	RX2100	Temp/RH	Soil Moisture	Solar Radiation	Leaf Wetness	Rainfall	Water Level/Flow	Wind
For irrigation planning efficiency		✓	✓		R			O		
Evapotranspiration ¹		✓	✓	R		R				R
Integrated Pest Management		✓	✓	R		O	O	O		O
Pesticide application compliance		✓	✓	R			O			R
Crop planning	✓	✓	✓	R		O		O		
Water level tracking (well/tank)	✓	✓	✓						R ²	
Water runoff	✓	✓	✓							
Remote monitoring of conditions		✓	✓	O	O	O	O	O	O	O
Real time alerts of critical points		✓	✓	O	O	O	O	O	O	O

1. Evapotranspiration calculation included with HOBOLink. Wind, solar radiation and temp/RH sensors must be installed together on same location. Solar radiation shield required.

R = Required
O = Optional/Nice to have

2. To measure flow in irrigation channels or drainpipes, a 3rd party flume or weir is required.

HOBOMobile®

Easy logger setup and data management software for HOBO MX Series loggers

HOBOMobile app, a free download from the iTunes or Google Play app store, makes it a snap to configure MX Series data loggers and manage the collected data. Right from a mobile phone or tablet, users can view data in graphs, check the operational status of loggers, share data files and graph images for analysis in Excel, Numbers, and other applications, and store data in the cloud. HOBOMobile also makes it fast and easy to set up audible alarm notifications so users are immediately notified of problems.



Key Advantages:

- Communicate to HOBO MX data loggers using Bluetooth Low Energy technology
- No internet connection required
- Set data logger's name, password, logging rate, alarm threshold, start & stop time
- Automatically upload data to HOBOLink service for storing and merging data files.
- Configure and clear audible alarms
- Page the data logger
- Download and view data
- Export and share data as CSV, TXT, XLSX, or HOBO files