

# HOBO<sup>®</sup>

by Onset



## Weather Stations

## Monitoring Solutions for Water, Indoor, Outdoor & Ag



**HOBO<sup>®</sup>**  
Data Logging Solutions  
Australia - New Zealand

# HOBO RX2100 MicroRX Station

*Easy to Deploy, Affordable  
Web-based Monitoring*



The new web-enabled HOBO MicroRX station is 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. Configurable station-side alarms provide immediate notification of critical conditions, and Onset's cloud-based HOBOLink platform makes it easy to view, access, and share your data.

## Supported Measurements:

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

## Key Advantages:

- Optional integrated solar panel for easy deployment
- Battery-powered option for covered or shaded deployment locations
- Wide range of research-grade plug-and-play sensors
- Optional water level sensor input, and water flow conversion
- Station-side alarms include new accumulated rainfall alarm
- Real-time monitoring with up to 10-minute connection rates via 4G cellular

## Minimum System Requirements:



If you would like to have this station with a water level input, see page 31.

► For complete information and accessories, please visit: [www.onsetcomp.com](http://www.onsetcomp.com)

Part number	RX2101	RX2102
Operating Range	-40° to 60°C (-40° to 140°F)	-20° to 60°C (-4° to 140°F)
Smart Sensor Connectors	5	
Smart Sensor Network Cable Length	100 m (328 ft) maximum	
Logging Rate	1 minute to 18 hours	
Alarm Notification Latency	Logging interval plus 2–4 minutes, typical	
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	
Memory	16 MB, 1 million measurements, continuous logging	
Battery Type	6 AA 1.5 V lithium batteries or optional AC power adapter (P-AC-1)	Integrated 1.7 watt solar panel and NiMH rechargeable battery pack
Battery Life	Daily connections: 1 year with 1 minute logging Hourly connections and 1 minute logging: 3 months	Typical 3–5 years when operated in the temperature range -20° to 40°C (-4° to 104°F)
Smart Sensor Data Channels	Maximum of 15	
Enclosure Access	Hinged door secured by two latches with eyelets for use with user-supplied padlocks	
Materials	Outer enclosure: Polycarbonate/PBT blend with brass inserts; Interior: Polycarbonate/PBT; Gasket: Silicone foam. Cable channel: Santoprene™ TPE	
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)	
Environmental Rating	Weatherproof enclosure, NEMA 4X and IP66	
CE Compliant	Yes	

\*Requires paid Data Plan: See page 47 or [www.onsetcomp.com/products/software/hobolink](http://www.onsetcomp.com/products/software/hobolink)



# HOBO RX3000 Remote Weather Station

*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.

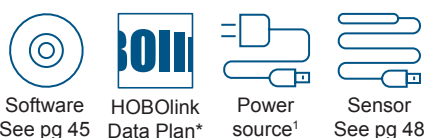
## Supported Measurements:

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

## 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

## Minimum System Requirements:



► For complete information and accessories, please visit: [www.onsetcomp.com](http://www.onsetcomp.com)

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		

\*Requires paid Data Plan: See page 47 or [www.onsetcomp.com/products/software/hobolink](http://www.onsetcomp.com/products/software/hobolink)

¹AC power adapter or solar panel required. See page 54. For more details, please visit [onsetcomp.com](http://onsetcomp.com), or call us at 1-800-564-4377.

# HOBOnet® Field Monitoring System

*Research-grade field monitoring  
with wireless and plug-and-play  
convenience*

The HOBOnet Field Monitoring System from Onset provides a cost-effective and scalable solution for web-enabled monitoring of field conditions for applications such as crop management, research, and greenhouse operations.

Onset's wireless sensors are ready to deploy and easily link to the network, and data is accessed through the new version of HOBOLink®, Onset's innovative cloud-based software platform.

## Supported Measurements:

Temperature, Relative Humidity, Dew Point, Solar Radiation, PAR, Rainfall, Wind Speed, Wind Direction, Soil Moisture, Barometric Pressure, Evapotranspiration, Leaf Wetness, Pulse Input, Water Flow, Water Level



## Powerful Visualization in Real Time

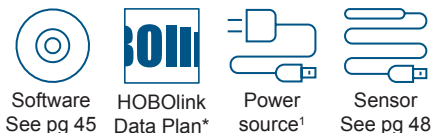
More powerful than ever, Onset's cloud-based HOBOLink software makes it easy to view your data and manage your HOBOnet Field Monitoring System remotely. With new dashboards and Google Map integration, your field monitoring data is more accessible and more meaningful.



## Key Advantages:

- Lowest cost-per-measurement point
- Wide coverage with wireless mesh technology
- Scalable, with up to 50 wireless sensors streaming back to a central, cloud-based weather station
- Remote access to data and current conditions with a customizable dashboard for analysis
- Alarm notifications for user-set thresholds

## Minimum System Requirements:



## Protect Your Crops and Reduce Costs

The HOBOnet Field Monitoring System helps growers reduce water use, save costs, improve crop quality, and protect against climate hazards such as frost and heat.

## Monitor Greenhouse Conditions with Real-Time Notifications

The HOBOnet Field Monitoring System provides data for crop and irrigation management, and helps growers protect plants with real-time notifications in case conditions reach user-set thresholds.

\*Requires paid Data Plan: See page 47 or [www.onsetcomp.com/products/software/hobolink](http://www.onsetcomp.com/products/software/hobolink)

¹AC power adapter or solar panel required. See page 55. For more details, please visit [onsetcomp.com](http://onsetcomp.com), or call us at 1-800-564-4377.



**HOBO RX2100**

- Integrated solar panel or battery power
- 4G cellular station  
(Learn more on page 21)



**HOBO RX3000**

- Low-cost Data Plans available
- Cellular, Wifi, and Ethernet options  
(Learn more on page 22)



**Wireless Sensors**

- Connect up to 50 wireless sensors
- 900 MHz wireless mesh technology
- 600m line-of-sight range
- No additional data fee charges per sensor



**Plug-and-Play Sensors**

- Connect up to 10 plug-and-play Smart Sensors
- Reliable, research-grade performance
- No need for programming or complicated wiring

► For complete information and accessories, please visit: [www.onsetcomp.com](http://www.onsetcomp.com)

Wireless Sensors	
Operating Temperature Range	-25° to 60°C (-13° to 140°F) with rechargeable batteries -40 to 70°C (-40 to 158°F) with lithium batteries
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 (2,000 ft) line of sight at 3 m (10 ft) high
Wireless Data Standard	IEEE 802.15.4
Radio Operating Frequencies	RXW-TMB-900: 904–924 MHz RXW-TMB-868: 866.5 MHz RXW-TMB-922: 916–924 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 RX Wireless Sensor Network
Battery Type/Power Source	Two AA 1.2 V rechargeable NiMH batteries powered by built-in solar panel or two AA 1.5 V lithium batteries for operating conditions of -40 to 70°C (-40 to 158°F)
Battery Life	With NiMH batteries: Typical 3–5 years when operated in the temperature range -20° to 40°C (-4°F to 104°F) and positioned toward the sun (see Deployment and Mounting), operation outside this range will reduce the battery service life With lithium batteries: 1 year, typical use
Memory	16 MB
Dimensions	Sensor: 5.1 x 33 mm (0.2 x 1.3 inches) Cable length: 5 m (16.4 ft) Mote: 16.2 x 8.59 x 4.14 cm (6.38 x 3.38 x 1.63 inches)
Weight	Mote: 223 g (7.87 oz)
Materials	Mote: PCPBT, silicone rubber seal
Environmental Rating	Mote: IP67, NEMA 6
CE Compliant	Yes



# HOBO H21-USB Micro Station

*Multi-channel weatherproof station for monitoring outdoor environmental conditions*

Rugged and compact, the redesigned HOBO USB Micro Station is a weatherproof data logger for multi-channel monitoring of microclimates. This battery-powered station accepts up to five plug-and-play Smart Sensors and has a hinged door to make sensor installation simple and quick. The Micro Station is equipped with a built-in USB port for fast, efficient data readout to a computer, and integrated mounting tabs for easy installation.

## Supported Measurements:

4-20mA, Amp Hour, Barometric Pressure, DC Voltage, Kilowatt Hours, Leaf Wetness, Light Intensity, Power Factor, Pulse Input, Rainfall, Relative Humidity, Soil Moisture, Temperature, Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps, Water Flow, Watt Hours, Winds, Wind



## Key Advantages:

- Compact size for easy deployment
- Weatherproof IP66 enclosure for harsh environments
- Direct USB offload--no need for an adapter cable
- Includes five plug and play Smart Sensor inputs
- Hinged door and integrated mounting tabs
- Runs for up to a year on four standard AA batteries
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing and analysis

## Minimum System Requirements:



Software  
See pg 45



USB cable\*



Sensor\*  
See pg 48

► For complete information and accessories, please visit: [www.onsetcomp.com](http://www.onsetcomp.com)

Part number	H21-USB
Operating Range	-20° to 50°C (-4° to 122°F) with alkaline batteries -40 to 70°C (-40 to 158°F) with lithium batteries
Smart Sensor Connectors	5
Smart Sensor Network Cable Length	100 m (328 ft) maximum
Logging Interval	1 second to 18 hours
Start Modes	Immediate, at interval, push button, or delayed start
Memory Modes	Stop when full or wrap when full
Memory	512 KB nonvolatile flash data storage
Time Accuracy	0 to 2 seconds for the first data point and ±5 seconds per week at 25°C (77°F)
Battery Type	Four AA 1.5 V alkaline batteries for operating conditions of -20° to 50°C (-4° to 122°F); four AA 1.5 V lithium batteries for operating conditions of -40 to 70°C (-40 to 158°F)
Battery Life	1 year, typical use (up to five sensors with 1 minute or greater logging interval)
Communication Type	USB 2.0 interface
Full Memory Download Time	4 minutes
Enclosure Access	Hinged door secured by one latch with eyelet for use with user-supplied padlock
Materials	Outer enclosure: Polycarbonate/PBT blend with stainless steel hinge pins; Gasket: Silicone foam; Cable channel: EPDM rubber
Dimensions	17.04 x 11.94 x 4.47 cm (6.71 x 4.70 x 1.76 in.) Padlock hole diameter: 0.58 cm (0.23 in.)
Weight	414 g (14.6 oz)
Environmental Rating	Weatherproof enclosure, NEMA 4X and IP66
CE Compliant	Yes

\*USB cable included with software part # BHW-PRO-CD

# HOBO U30-NRC Weather Station

*Research-grade data logging weather station*



This rugged weather station is one of Onset's most durable outdoor environmental monitoring solutions. Users can easily configure the HOBO U30-NRC Weather Station to fit their application needs. Use up to 15 channels to collect environmental data and then upload to HOBOWare Pro software for expert analysis.

## Supported Measurements:

Barometric Pressure, Leaf Wetness, Light Intensity, PAR, Pulse Input, Rainfall, Relative Humidity, Soil Moisture, Solar Radiation, Temperature, Wind Speed & Direction, 4-20mA, Voltage Input

## Key Advantages:

- Rugged double-weatherproof, tamper-proof enclosure
- Setup is quick and easy with plug-and-play sensors
- Fast data offload via USB
- Optional analog inputs with sensor excitation
- Includes relay that can be activated on user-defined alarm conditions

## Minimum System Requirements:



Software  
See pg 45



Power  
source<sup>1</sup>



Sensor\*  
See pg 48

► For complete information and accessories, please visit: [www.onsetcomp.com](http://www.onsetcomp.com)

Part number	U30-NRC
Smart-Sensor Inputs	5 or 10
Data Channels	Maximum of 15 (some sensors use more than one data channel)
Smart Sensor Cable Length	100m (323ft) maximum
Alarm Relay	Can be activated, deactivated or pulsed on user-defined sensor alarms.
Logging Interval	1 minute to 18 hours, user-specified
Data Storage Memory	512K bytes local storage in non-volatile flash memory
Environmental Rating	Weatherproof enclosure, NEMA 4x
Operating Range	-40 to 60°C (-40 to 140°F) see battery life
Power	An Onset solar panel (3w, or 6w) or AC adapter is required
Battery Life	3-5 years, 4 volt 10 AHr rechargeable sealed lead acid
Dimensions	17.8 x 11.7 x 19.3 cm (7.0 x 4.6 x 7.6 in)
Weight	2kg (4lbs 10oz)
Local Communication	USB
CE Compliant	Yes

<sup>1</sup>AC power adapter or solar panel required. See page 54. For more details, please visit [onsetcomp.com](http://onsetcomp.com), or call us at 1-800-564-4377.

# HOBO Weather Stations

*Research-grade weather monitoring with plug-and-play convenience*

A range of HOBO stations to choose from:



## HOBO RX3000

- 10 Smart Sensor inputs
- Cloud-based data access
- Configure & check from mobile devices
- Supports broad range of sensors
- LCD display
- Optional analog sensor & relay modules

[Learn more on page 22](#)



## HOBO RX2100

- 5 Smart Sensor inputs
- Cloud-based data access
- \* Configure & check from mobile devices
- Compact, low-cost
- Supports broad range of sensors including water level
- LCD display

[Learn more on page 21](#)



## HOBO H21-USB

- 5 Smart Sensor inputs
- USB configuration and data access
- Compact, low-cost
- Weatherproof IP66 enclosure
- Supports broad range of sensors

[Learn more on page 25](#)



## HOBO U30-NRC

- 5 or 10 Smart Sensor inputs
- USB configuration and data access
- Optional analog sensor port
- Built-in relay
- Supports broad range of sensors

[Learn more on page 26](#)



## 2 Meter Tripod

M-TPB

- Height range: 1.72 to 2.13 m (5.6 to 7 ft)
- Mast diameter: 4.1 cm (1.63 in)
- Weight: 5.8 kg (12.8 lbs)

M-GKA Grounding Kit is recommended when using tripods in exposed locations.  
2 Meter Tripod Kit also available M-TPB-KIT



## 3 Meter Tripod

M-TPA (shown at right)

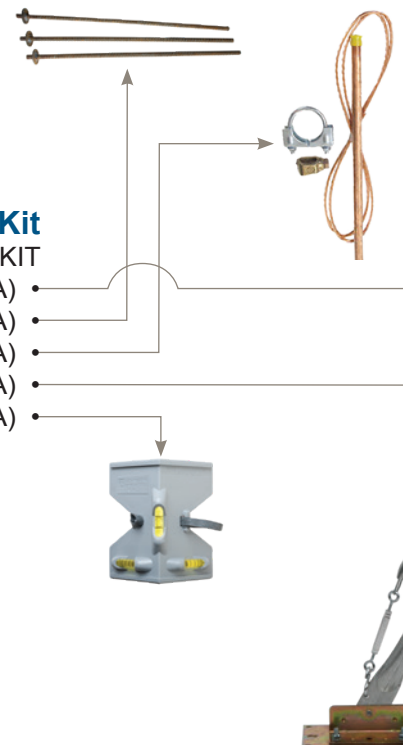
- Height range: 2.74 to 3.20 m (9 to 10.5 ft)
- Mast diameter: 4.1 cm (1.63 in)
- Weight: 12.7 kg (28 lbs)
- Maximum slope: 13 degrees for installation on moderately uneven ground

M-GKA Grounding Kit is recommended when using tripods in exposed locations.

## 3 Meter Tripod Kit

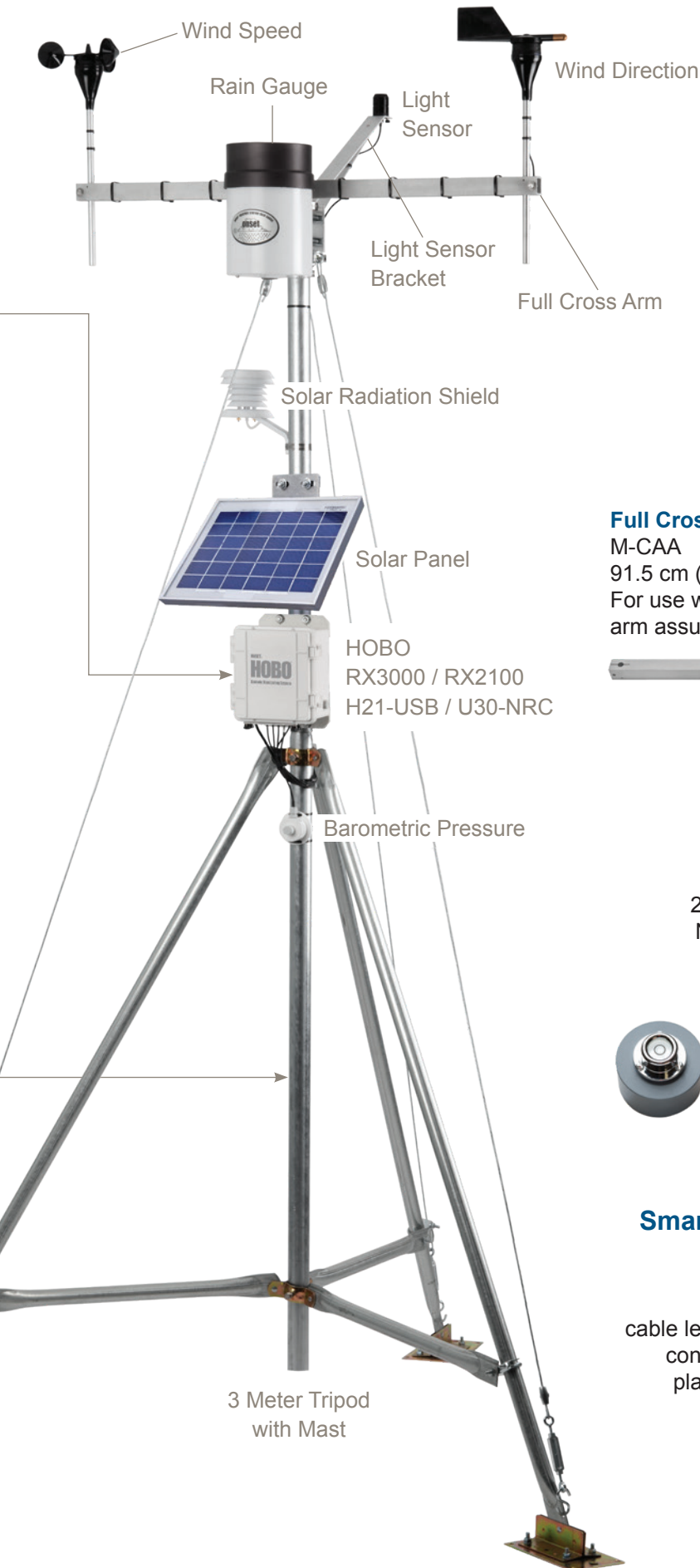
M-TPA-KIT

- 3-meter tripod (M-TPA)
- 1/2-in Stake Kit (M-SKA)
- Grounding Kit (M-GKA)
- Guy Wire Kit (M-GWA)
- Mast Level (M-MLA)





# HOBO Weather Stations



## Light Sensor Bracket

M-LBB

Includes leveling screws and u-bolts for mast mounting.



## Solar Radiation Shield

RS3-B

Pre-assembled for S-THBs, S-TMBs, includes clamp for mast mounting.



## Full Cross Arm

M-CAA

91.5 cm (36 in)

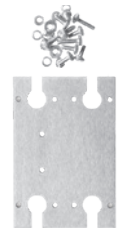
For use with Onset tripods or masts, the full cross arm assures unobstructed wind measurement.



## NDVI Light Sensor Bracket

M-NDVI

Used to mount 2 PAR sensors and 2 solar radiation sensors for making NDVI measurements. Also requires M-LBB light sensor bracket.



## Light Sensor Level

M-LLA

Purchase one for use on any number of light sensors.



## Smart Sensor Extension Cables

S-EXT-M0xx

2 m, 5 m, 10 m, 25 m

(16 ft, 33 ft, 82 ft)

cable lengths available. Use individually or connected together to optimize sensor placement. A weatherproof housing is required for outdoor connections (Part# S-EXT-CASE2).

Network cable length limited to 100 meters per data logger.



# HOBOLink® Web-Based Display/Readout

## Powerful web-based access to HOBO Remote Monitoring Systems

HOBOLink is a web-enabled software platform that allows you to easily access current and historical data, set alarm notifications, relay activations, and manage and control your HOBO web-based data logging systems.

HOBOLink supports the following:

- HOBO MicroRX Stations
- HOBO MX Gateway
- HOBO RX3000 Remote Monitoring Systems
- HOBOnet Field Monitoring Systems
- HOBO U30 Remote Monitoring Systems

See data plans:

[www.onsetcomp.com/products/software/hobolink](http://www.onsetcomp.com/products/software/hobolink)



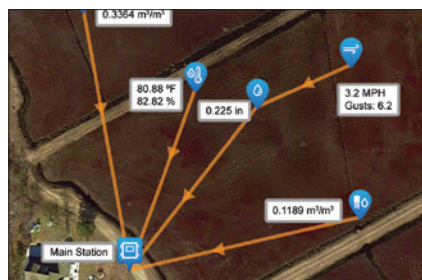
## Key Advantages:

- Access your data with a web browser or mobile device
- Verify HOBO Station status' remotely
- Set up and manage alarm notifications remotely
- Schedule automated delivery of data
- Configure a dashboard that highlights your most important measurements
- reate dashboards that bring data from multiple systems together in a single view
- Configure calculated channels such as dew point, accumulated rainfall, and evapotranspiration (ET)
- Export the exact date range and sensors you want



## Get Notified

HOBOLink will send an email or a text/SMS message to your phone when conditions exceed set thresholds.



## Monitor your Stations with Google Maps

HOBOLink integrates Google Maps to allow you to quickly see all your HOBO devices or get a view of the connection patterns for your HOBOnet system, and drill down on the details.



## Web-based Configuration

HOBOLink allows you to easily configure sensors, logging, alarm notifications, relay activations, and more.



## Dashboards

The HOBOLink dashboard enables instant visualization of your current and historical data, and can be customized to your specific needs with the dashboard builder and our library of widgets.

# External Sensors by Measurement

## Weather/Field

Temperature											
Part number	Type	RX3000	RX2100	U30	H21	H22	U12	U14	UX100	UX120	
RXW-TMB-xxx <sup>1</sup>	HOBOnet wireless temperature sensor	✓									
S-THB-M002 <sup>2</sup>	12-bit temp/RH Smart (2m cable)	✓	✓	✓	✓	♦		♦			
S-THB-M008 <sup>2</sup>	12-bit temp/RH Smart (8m cable)	✓	✓	✓	✓	♦		♦			
S-TMB-M002	12-bit temp Smart (2m cable)	✓	✓	✓	✓	♦		♦			
S-TMB-M006	12-bit temp Smart (6m cable)	✓	✓	✓	✓	♦		♦			
S-TMB-M017	12-bit temp Smart (17m cable)	✓	✓	✓	✓	♦		♦			
TC6-J	Type J beaded thermocouple								✓ <sup>3</sup>	♦	
TC6-K	Type K beaded thermocouple								✓ <sup>3</sup>	♦	
TC6-T	Type T beaded thermocouple								✓ <sup>3</sup>	♦	
TCP6-K12	Type K probe thermocouple								✓ <sup>3</sup>	♦	
TMC1-HD	Air/water/soil temp (1' cable)						✓			♦	
TMC6-HD	Air/water/soil temp (6' cable)						✓			♦	
TMC20-HD	Air/water/soil temp (20' cable)						✓			♦	
TMC50-HD	Air/water/soil temp (50' cable)						✓			♦	
TMC6-HC	Stainless steel temp probe (6' cable)						✓			♦	
TMC6-HE	Pipe temp (6' cable)						✓			♦	

PAR						
Part number	Type	RX3000	RX2100	U30	H21	H22
RXW-LIA-xxx <sup>1</sup>	HOBOnet wireless PAR	✓				
S-LIA-M003	Photosynthetic light (PAR)	✓	✓	✓	✓	♦

Solar Radiation						
Part number	Type	RX3000	RX2100	U30	H21	H22
RXW-LIB-xxx <sup>1</sup>	HOBOnet wireless solar radiation	✓				
S-LIB-M003	Solar radiation	✓	✓	✓	✓	♦

Barometric Pressure						
Part number	Type	RX3000	RX2100	U30	H21	H22
S-BPB-CM50	Barometric pressure	✓	✓	✓	✓	♦
S-BPA-CM10	HWS barometric pressure					♦

Wind Speed & Direction						
Part number	Type	RX3000	RX2100	U30	H21	H22
RXW-WCG-xxx <sup>3</sup>	HOBOnet ultrasonic wind speed & direction	✓				
RXW-WCF-xxx <sup>1</sup>	HOBOnet wireless wind direction	✓				
S-WCG-M003	Ultrasonic wind speed and direction	✓	✓	✓	✓	♦
S-WDA-M003	Wind direction (3m cable)	✓	✓	✓	✓	♦
S-WSB-M003	Wind speed Smart Sensor (3m cable)	✓	✓	✓	✓	♦
S-WSET-A	Wind Smart Sensor set	✓	✓	✓	✓	♦
S-WCB-M003	R.M. Young wind monitor-AQ adapter	✓	✓	✓	✓	♦
S-WCC-M003	R.M. Young marine wind adapter	✓	✓	✓	✓	♦
S-WCE-M003	R.M. Young wind monitor adapter	✓	✓	✓	✓	♦
S-WCF-M003	Davis wind speed/direction Smart Sensor	✓	✓	✓	✓	♦

Rainfall						
Part number	Type	RX3000	RX2100	U30	H21	H22
RXW-RGE-xxx <sup>1</sup>	HOBOnet wireless rainfall (inches)	✓				
RXW-RGF-xxx <sup>1</sup>	HOBOnet wireless rainfall (metric)	✓				
S-RGA-M002	.01" rain gauge Smart Sensor (2m cable)	✓	✓	✓	✓	♦
S-RGB-M002	.2mm rain gauge Smart Sensor (2m cable)	✓	✓	✓	✓	♦
S-RGC-M002	Davis 0.01" rain gauge Smart Sensor	✓	✓	✓	✓	♦
S-RGF-M002	Davis 0.2 mm rain gauge Smart Sensor	✓	✓	✓	✓	♦

<sup>1</sup> HOBOnet mote manager part# RXMOD-RXW and RX3000 or RX2100 required

<sup>2</sup> Note: Temp & RH NIST certification services available for this product. Please visit [onsetcomp.com](http://onsetcomp.com), or call us at 1-800-564-4377

♦ This logger is intended for indoor environments, but sensors are compatible.

\* Requires UX100-014M Thermocouple logger.



# External Sensors by Measurement

## Weather/Field (continued)

### Soil Moisture

Part number	Type	RX3000	RX2100	U30	H21	H22
RXW-GP3-xxx <sup>1</sup>	3-segment probe (45 cm, 18 in) soil moisture	✓	✓			
RXW-GP4-xxx <sup>1</sup>	4-segment probe (60 cm, 24 in) soil moisture	✓	✓			
RXW-GP6-xxx <sup>1</sup>	6-segment probe (90 cm, 35 in) soil moisture	✓	✓			
RXW-T12-xxx <sup>1</sup>	HOBOnet wireless T12 soil moisture/temp/EC sensor	✓	✓			
RXW-SMC-xxx	HOBOnet wireless soil moisture EC-5 <sup>1</sup>	✓				
RXW-SMD-xxx	HOBOnet wireless soil moisture 10HS <sup>1</sup>	✓				
S-SMC-M005	EC-5 soil moisture Smart Sensor	✓	✓	✓	✓	♦
S-SMD-M005	10HS soil moisture Smart Sensor	✓	✓	✓	✓	♦

### Soil Water Potential

Part number	Type	RX3000	RX2100	U30	H21	H22
RXW-T21-xxx	HOBOnet wireless T12 soil moisture/temp/EC sensor	✓	✓			

### Leaf Wetness

Part number	Type	RX3000	RX2100	U30	H21	H22
RXW-LWA-xxx <sup>1</sup>	HOBOnet wireless leaf wetness sensor	✓				
S-LWA-M003	Leaf wetness Smart Sensor	✓	✓	✓	✓	♦

### Relative Humidity

Part number	Type	RX3000	RX2100	U30	H21	H22	U14
RXW-THC-xxx <sup>1</sup>	HOBOnet wireless temp/RH sensor	✓					
S-THB-M002	12-bit temp/RH Smart (2m cable)	✓	✓	✓	✓	✓	✓
S-THB-M008	12-bit temp/RH Smart (8m cable)	✓	✓	✓	✓	✓	✓

### Pulse Input

Part number	Type	RX3000
RXW-UCC-xxx	HOBOnet pulse input switch sensor <sup>1</sup>	✓

<sup>1</sup> HOBOnet mote manager part# RXMOD-RXW and RX3000 or RX2100 required

♦ This logger is intended for indoor environments, but sensors are compatible.

# The Onset Advantage

## Responsiveness

Your projects have tight deadlines that your monitoring partner must be able to meet. Onset offers a highly responsive, dynamic manufacturing environment where we build and ship all our products directly from our headquarters on Cape Cod. Our centralized operations and large capacity enable us to provide fast turnaround to meet your tight project deadlines. Most orders ship within 24 hours.



## Reliable, Accurate Data

No matter what your application involves, at the end of the day it all comes down to the integrity of your data. Our HOBO data loggers are known for providing the most reliable, accurate energy and environmental data under some of the world's toughest environmental conditions. And our InTemp monitoring solutions meet CDC requirements for calibrated temperature monitoring with devices backed by a Certificate of Calibration Testing.



## Simple & Cost-Effective

At Onset, we realize that the technology skill set of our customers and their technology budgets can vary widely. For this reason, our products are designed from the ground up with ease-of-use and affordability in mind.



## Applications Expertise

With four decades of experience in solving data logging applications, Onset has developed an applications expertise that is second to none. Whether it's air quality, agricultural research, preservation management, water quality, or temperature-controlled storage monitoring, chances are we have seen your application before and know what it takes to solve it.



## World Class Support

Many of our new customers are surprised to find that when they call Onset, a live person answers the phone. Our world-class technical service department is staffed by friendly, knowledgeable people who listen carefully to your questions and guide you through any challenges that arise. Unlike many technology companies, Onset offers free technical support for the life cycle of your purchase.



*"The time reduction for downloading the MX2001 logger in our wells is significant, since most are 25 to 500 feet deep. The Bluetooth capability eliminates the need to remove the logger from the well and threat of tangled cable."*

David Light,  
West Virginia University

## About Onset

Onset is a leading supplier of data loggers and monitoring solutions used to measure, record, and manage data for improving the environment and preserving the quality of temperature-sensitive goods.

Based on Cape Cod, Massachusetts, Onset has been designing and manufacturing its products on site since the company's founding in 1981.



*Onset headquarters, Cape Cod, MA*

Go to [onsetcomp.com/resources/](https://onsetcomp.com/resources/) to browse our white papers, application stories, videos, and webinars

Onset®, HOB0®, InTemp®, HOBOnet®, HOB0link®, HOB0mobile®, HOB0ware®, HOB0connect™, Pendant®, TidbiT®, FlexSmart™, and all other names of Onset products referenced herein are trademarks or registered trademarks of Onset Computer Corporation.

©2021 Onset Computer Corporation. All rights reserved.

Patented technology (U.S. Patent 6,826,664)

MKT1109-0121



# ONSET HOBO<sup>®</sup>

Data Logging Solutions  
Australia - New Zealand

**OneTemp<sup>®</sup>** pty ltd  
measure | control | record

**1300 768 887**  
[www.onetemp.com.au](http://www.onetemp.com.au)