

Weatherproof loggers for outdoor temperature and humidity measurements



HOBO Pro v2 data loggers are weatherproof loggers that provide high-accuracy temperature and relative humidity measurements in a wide range of outdoor environments.

Key Advantages:

- Weatherproof housing for use in outdoor or condensing environments
- High-accuracy measurements
- Replaceable RH sensor provides superior recovery from condensing conditions
- Small-diameter, external sensor versions for measurements in tight spaces
- Optic USB interface for fast and reliable download

Supported Measurements:

- Temperature
- Relative Humidity
- Dew Point

Minimum System Requirements:



HOBOConnect



Software



Base Station



Coupler

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



Technical Specifications:

Part number	U23-001 (Internal Temp/RH)	U23-002 (External Temp/RH)	U23-003 (2x External Temp)	U23-004 (Temp/External Temp)
Memory	42,000 measurements			
Sampling rate	1 second to 18 hours, fixed rate or multiple logging intervals			
Battery life	3 years typical, user-replaceable, 1/2 AA lithium			
	Internal Temperature			
Measurement range	-40° to 70°C (-40° to 158°F)			
Accuracy	± 0.21°C over 0° to 50°C (± 0.38°F over 32° to 122°F)			
Resolution (12-bit)	± 0.02°@ 25°C (± 0.04°@ 77°F)			
Stability (drift)	< 0.1°C (0.18°F) per year			
	Relative Humidity (U23-001 & U23-002 only)			
Measurement range	0 to 100% RH, -40° to 70°C (-40° to 158°F)			
Accuracy	±2.5% from 10%RH to 90%RH typical to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10%RH and above 90%RH ±5% typical			
Resolution (12-bit)	0.05%RH			
	External Temperature			
Measurement Range	U23-002: -40° to 70°C (-40° to 158°F), U23-003 & U23-004: -40° to 100°C (-40° to 212°F) with sensor tip and cable immersion in fresh water up to 50°C (122°F) for one year			
Accuracy	± 0.21°C from 0° to 50°C (± 0.36°F from 32° to 122°F)			
Resolution	0.02°@ 25°C (0.04°@ 77°F)			
Dimensions	Housing measures 10.2 × 3.8 cm (4.0 × 1.5 in.)			
CE compliant				Yes

HOBOconnect® App for MX Data Loggers

Easy logger setup and data management with your mobile device or Windows computer

Onset's free HOBObconnect app makes it fast and easy to configure compatible HOBO MX Series data loggers (chart below) and manage the collected data. Just download the app from the Apple App Store or Google Play to your mobile device, or download from our website to your Windows computer. With HOBObconnect, you 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, plus store data in the cloud. HOBObconnect also lets you quickly set up audible alarm notifications, so you're immediately alerted to any problems.



Features:

- Communicates to HOBO MX data loggers using Bluetooth (LE) technology
- No internet connection required
- Set data logger's name, password, logging rate, alarm threshold, start and stop time
- Automatically upload data to Onset's cloud-based HOBOblink software to store and merge data files
- Configure and clear audible alarms
- Page the data logger
- Quickly download and view data
- Export and share data as CSV, TXT, XLSX, or HOBO files