



# HOBO H21 USB Micro Weather Station Data Logger (add sensors as required)

## Product Images



## Short Description

---

Rugged and compact, the redesigned HOBO H21 USB Micro Station is a weatherproof data logger for multi-channel monitoring. This battery-powered station accepts up to five plug-and-play Smart Sensors and is equipped with a built-in USB port for fast, efficient data readout to a computer, and an integrated mounting tabs for easy installation.

Requires a CABLE-USBMB and HOBOWare software (select from options below).

## Description

---

Rugged and compact, the redesigned HOBO USB Micro Station is a weatherproof data logger for multi-channel monitoring of micro-climates. 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 an integrated mounting tabs for easy installation.

## Key Features


- Compact size for easy deployment
- Weatherproof IP66 enclosure for harsh environments
- Direct USB offload--no need for an adapter cable
- Includes five 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.

The H21 can be used with a wide range of sensors; some of the more popular ones are available below. Contact us if you need any help specifying an appropriate system.

## BUYING IN BULK, OR JUST WANT SOME HELPFUL ADVICE?

Call **+44 (0)1243 558270**, click on the webchat box below, or fill out our [contact form](#).

# Additional Information

Brand	Onset HOBO	
Country of Manufacture	United States	
Contents	HOBO H21-USB Micro Station Four AA 1.5V alkaline batteries Rubber plugs Grease packet Screws and washers Cable ties	
Explanation	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 Data Channels	Maximum of 15 (some smart sensors use more than one data channel; see sensor manual for details)
	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; Gaskets: Silicone rubber; Cable channel: EPDM rubber
	Dimensions	17.04 x 11.94 x 4.47 cm (6.71 x 4.70 x 1.76 in.) see diagrams in manual Padlock hole diameter: 0.58 cm (0.23 in.)
	Weight	414g (14.6 oz.)
	Environmental Rating	Weatherproof enclosure, NEMA 4X and IP66
		The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).
Onset Product Series	H21	
Measurements	4-20mA, Amp Hour (Ah), Barometric Pressure, Current AC, Dew Point, Humidity, kWh, Leaf Wetness, Light Intensity, PAR/Quantum Light, Power Factor (PF), Pulse, Rainfall, Soil Moisture, Solar Radiation, Temperature, Universal, Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps (VA), Voltage DC, Water Flow, Watt Hours (Wh), Watts (W), Wind Direction, Wind Speed	
Typical applications	Energy, Environmental (Indoor), Environmental (Outdoor), Field Research, Non Specific, Weather Monitoring	
Power	Battery only	
Dimensions	17.04 x 11.94 x 4.47 cm	
Batteries	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)	
Power	Battery only	



## Additional Options

<b>Mounting Options</b>	HOBO 2-Metre Tripod Kit (M-TPB-KIT)
	HOBO 3-Metre Tripod Kit (M-TPA-KIT)
<b>HOBOWare Pro Software Options</b>	HOBOWare Pro on USB Drive (USB cable included)
	HOBOWare Pro on CD (USB Cable Included)
	HOBOWare Pro - Download Only (USB cable NOT included)
<b>USB Cable (included with HOBOWare Pro on USB Drive &amp; CD)</b>	HOBO U-Series to PC USB Cable
<b>Temperature Sensors</b>	12-Bit Temperature (2m cable) Smart Sensor
	12-Bit Temperature (6m cable) Smart Sensor
	12-Bit Temperature (17m cable) Smart Sensor
<b>Relative Humidity Sensors</b>	12-bit Temperature/Relative Humidity (2m cable) Smart Sensor
	12-bit Temperature/Relative Humidity (8m cable) Smart Sensor
<b>Rainfall Sensors</b>	Davis® 0.01" Rain Gauge Smart Sensor
	Davis® 0.2 mm Rain Gauge Smart Sensor
	0.01" Rain Gauge (2m cable) Smart Sensor
	0.2 mm Rainfall (2m cable) Smart Sensor
<b>Wind Sensors</b>	Davis® Wind Speed and Direction Smart Sensor
	Wind Direction Smart Sensor
	Wind Speed Smart Sensor
	Wind Speed and Direction Set Smart Sensor
<b>Barometric Pressure Sensor</b>	Smart Barometric Pressure Sensor
<b>Soil Moisture (Sensors)</b>	EC5 Soil Moisture Smart Sensor
	10HS Soil Moisture Smart Sensor
<b>Leaf Wetness Sensor</b>	Leaf Wetness Smart Sensor
<b>Light Intensity Sensors</b>	Photosynthetic Light (PAR) Smart Sensor
	Solar Radiation (Silicon Pyranometer) Smart Sensor

<b>Analogue Input Sensor Adapters</b>	12-Bit Voltage Input Adapter Sensor
	12-Bit 4-20 mA Input Adapter Sensor
<b>Pulse Input Sensor Adapters</b>	Electronic Switch Pulse Input Adapter - 1 Meter Sensor
	Electronic Switch Pulse Input Adapter - 6 Meter Sensor
	Contact Closure Pulse Input Adapter - 1 Meter Sensor
	Closure Pulse Input Adapter - 6 Meter Sensor