

U30-WIF

HOBO U30 Wi-Fi Data Logger

15 Channel Web-based Monitoring System



Discontinued

A web-based, 15-channel data logging system for a broad range of energy and weather monitoring applications; transmits data to the web via Wi-Fi for easy access from internet-enabled devices.

Important Information

Requires a HOBOLink service plan and HOBOWare software (USB interface cable included w/CD purchase).



Compatible with
HOBOWare[®] Software

[View upgrade options](#)

Supported Measurements

4-20mA, AC Current, AC Voltage, Air Velocity, Amp Hour (Ah), Amps (A), Barometric Pressure, Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Differential Pressure, Event, Gauge Pressure, Kilowatt Hours (kWh), Kilowatts (kW), Leaf Wetness, Light Intensity, Power Factor (PF), Pulse Input, Rainfall, Relative Humidity, Soil Moisture, Temperature, Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps (VA), Volts (V), Water Flow, Water Level, Watt Hours (Wh), Watts (W), Wind

Features

- Web-based data access via Wi-Fi communications
- Plug-and-play smart sensors enable rapid deployment
- Double weatherproof, tamperproof enclosure for harsh environments
- Alarm capabilities via text, e-mail
- Optional analog inputs with sensor excitation
- HOBOLink for viewing data and system configuration via the web
- Scheduled data delivery from HOBOLink to email or FTP
- Includes relay that can be activated on user-defined alarm conditions

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
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Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

HOBO U30 Wi-Fi Data Logger (U30-WIF) Specifications

Normal operating range: -20°C to 40°C (-4°F to 104°F)

Extended operating range: -40 to 60°C (-40 to 140°F) - see "Rechargeable Battery service Life" for impact of operations in Extended Operating Range.

Note: The GSM radio module will not communicate below -30°C (-22°F)

Sensor Inputs: 5 standard; option to expand to 10

Smart Sensor Compatibility: Compatible with most Onset smart sensors

Data Channels: Maximum of 15 (some sensors use more than one data channel)

Alarm Output Relay: Can be configured to be activated, deactivated or pulsed on user-defined sensor alarms. The relay can be configured as normally open or normally closed, and is rated for 30 V and 1 amp max.

Expansion Slot: One expansion slot is available for factory-installed expansion port.

Local Communication: Full Speed USB via USB mini-B connector

Size: 17.8 H x 11.7 D x 19.3 W cm (7.0 H x 4.6 D x 7.6 W inches)

Weight: 2 kg (4 lbs 10 oz)

Materials: Outer Enclosure: Polycarbonate/PBT blend with stainless steel hinge pins and brass inserts

Inner Enclosure: Polycarbonate with brass inserts

U-Bolts: Steel with zinc dichromate finish

Gaskets: Silicone rubber

Cable entry channel: EPDM rubber

Cable entry bars: Aluminum with ABS plastic thumb screws

Data Storage Memory: Nonvolatile flash data storage, 512K bytes local storage

Memory Modes: Stop when full, wrap around when full

Operational Indicators: Up to seven (depending upon options) status lights provide basic diagnostics

Logging Interval: 1 second to 18 hours, user-specified interval

Battery Type: 4 Volt, 10 AHr Rechargeable sealed lead-acid

Rechargeable Battery Service Life: Typical 3–5 years depending upon conditions of use. Operation within the extended operating range (but outside the normal range) will reduce battery service life.

Time Accuracy: 0 to 2 seconds for the first data point and ± 5 seconds per week at 25°C (77°F)

Environmental Rating: Weatherproof enclosure, tested to NEMA 6. (Requires proper installation of cable channel system)

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

Enclosure Access: Hinged door secured by two latches with eyelets for securing with user-supplied padlocks

Alarm Notification Latency: Logging interval plus 2–4 minutes (typical). Onset is not responsible for failed connections or undelivered mail/text messages.

Alarm Output Relay: One relay contact closure can be configured as normally open, normally closed, or pulsed.

Voltage: 130 V Current: 1 amp max.

Sensor Network Cable Length: 100 m (328 ft) maximum

External Power: External power is required. The system optionally accepts the following Onset solar panels:

- SOLAR-1.2W
- SOLAR-3W
- SOLAR-6W

Alternatively it accepts an AC power adapter:

- AC-U30

WiFi

Network Standards: IEEE 802.11b ; IEEE 802.11g - **NOTE:** Pre-N routers are Preliminary and should not be used with an Onset U30 Wi-Fi Remote Monitoring Systems at this time.

Frequency Range: 2.412 – 2.484 GHz

Antenna Connector: 1, no diversity supported.

Data Rates: 1,2,5.5,11Mbps(802.11b) 6,9,12,18,24,36,48,54Mbps(802.11g)

Radio: Number of Selectable 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

Radio: Antenna Connector: 1

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

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

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

Antenna Type: Internal Antenna with Reverse SMA connector

Optional Analog Sensor Port Specifications

Input Channels: Two, single-ended

Field Wiring: Two- or three-wire via screw terminals on detachable connector, 16–24 AWG.

Replacement detachable connectors: Part of spares kit, Part No. A-FS-CVIA-7P-1

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Input Range: User-configurable: 0–20 mA DC, 0-2.5 VDC, 0-5 VDC, 0-10 VDC, or 0–20 VDC

Minimum / Maximum Input Voltage: 0 / 24 VDC

Minimum / Maximum Input Current: 0 / 24 mA DC

Minimum Current Source Impedance: > 20 K Ω

Accuracy: \pm 0.25% of FSR from 50mV to FSV

ADC Resolution 12 bits

?Excitation Power: Switched 12 VDC, up to 50 mA; user-selectable warm-up from 5msec to 2 minutes