



HOBO[®] U30-ETH (Ethernet) Energy Data Logger

- 15 channel Data Logging with real-time remote access to environmental and energy data
- Rugged outdoor enclosure
- Fully-integrated expandable communications
- Plug-and-play sensors
- Fast data offload via USB
- Optional analogue inputs with sensor excitation
- Relay for user-defined alarm conditions



The HOBO Remote Monitoring System is a remote data logging and monitoring device with built in Ethernet communications that can be easily reconfigured and adapted to measure a wide variety of applications. Up to 15 channels of data can be recorded and monitored remotely via Onset's web-enabled software platform; HOBOLink

In addition, alarms can be set to trip for specific sensor readings or for overall system conditions, such as when memory or the logger battery is running low.

Note: The HOBO U30 requires HOBOWare software, a power source, and internet access with a data plan via HOBOLink.com, an Onset-hosted and managed web server.

Wide Range of Measurements via optional tripod mount and sensors

Weather Measurements:

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

Energy-HVAC Measurements:

- 4-20mA
- AC Current
- AC Voltage
- Air Velocity
- Carbon Dioxide
- Compressed Air Flow
- DC Current
- DC Voltage
- Differential Pressure
- Gauge Pressure
- kW
- kWh
- Pulse Input
- Relative Humidity
- Temperature
- Volatile Organic Compound (VOC)
- Water Flow





HOBOWare / HOBOLink Software:

The U30-ETH requires HOBOWare launch & readout software & a HOBOLink Service Plan.

HOBOLink is a web-enabled software platform. It allows you 24/7 web access to data, and to remotely manage and control your HOBOWare U30 Remote Monitoring System, easily access current and historical data, and set alarm notifications and relay activations. Service Plans are priced on the frequency of data uploads and start on the day the U30 is manufactured. An extra week is included in the first year of service to allow for time between when the unit is manufactured and received by the user.

Service Plans are limited to the maximum cellular data usage per month. If there are more frequent alarms or logger launches, these will reduce how frequently the U30 can connect. If the amount of cellular data left in a month gets low, a warning will be sent. If the data left gets too low, HOBOLink will automatically scale back the connection interval to once per day and turn off alarms. Normal operation will resume the following month.

Specification:

- Measurement range according to sensor
- Normal operating range: -20°C to 40°C
- Extended operating range: -40 to 60°C (ask about "Rechargeable Battery service Life")
- Note: The GSM radio module will not communicate below -30°C
- 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.

Configuration:

- External Power is required: The system accepts AC-U30 AC Power Adapter, or Solar Panels: Solar- 1.2W/3W/6W
- Time Accuracy: 0-2 secs ±5 secs/week
- Alarm Output Relay: Contact closure can be configured as N/O, N/C, or pulsed (30V, 1A max)
- Sensor Cable: 100m (max)
- Ethernet: 10Base-T or 100Base-TX (using external RJ45 Jack)
- Encryption: 256-bit AES Rijndael
- RJ 45 Jacks: 1
- Expansion Slot: One expansion slot is available for factory fitted port
- Local Communication: Full speed USB
- Size: 178(H) x 117(D) x 193(W) mm
- Weight: 2 kg
- Enclosure: Polycarbonate/PBT blend with stainless steel hinge pins and brass inserts
- Rating: Weatherproof, NEMA 6
- Memory: 512K; Non-volatile
- Memory Mode: Stop when full, wrap around when full
- Operational Indicators: 7 status lights
- Logging Interval: 1 sec – 18 hours
- Battery: 4V, 10 AHr (typically 3-5 year life)
- Choosing 2 analogue inputs provides 2 analogue inputs and sensor power; and can be user-configured for either 0-20 mA or 0-20V.
- 5 smart sensor inputs includes weatherproof inlets for up to 5 sensor cables.
- 10 smart sensors inputs includes weatherproof inlets for up to 11 sensor cables, and 1 oversized cable (0.25")
- 10 Ah rechargeable battery included

Note: Onset/Tempcon cannot be held responsible for failed communication connections, or undelivered mail/text messages

Order Information:

U30-ETH Ethernet Communications Data Logger
CS262 UK Mains Power Supply
Solar Panels (Contact Tempcon Sales Office)
HOBOWare Launch/Download Software
HOBOLink Communications Service Plan

