HOBO® U30-GSM Data Logger

U30 Cellular Data Logger

This item is discontinued. The upgrade for this product is the RX3000. The HOBO Cellular-U30 is a web-based, 15-channel data logging system for a broad range of energy and weather monitoring applications. The system transmits data to the web via cellular communications for easy access from internet-enabled devices. In addition, alarms can be configured to generate text messages and emails when data goes out of range.

**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, Volatile Organic Comp., Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps (VA), Volts (V), Water Flow, Water Level, Watt Hours (Wh), Watts (W) and Wind

**Key Advantages:**
- Web-based energy and environmental monitoring
- Electronics are housed in an industrial-grade, tamperproof enclosure
- Setup is quick and easy with plug-and-play sensors
- Measures a wide range of energy and environmental parameters
- Cellular, Wi-Fi, Ethernet, direct USB options available
- Optional analog inputs with configurable sensor power
HOBO U30-GSM Data Logger 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: 30 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

**C3G**

GSM/GPRS/EDGE: Quad band 850/900/1800/1900MHz, UMTS/HSPA+: Five band 800/850/900/1900/2100MHz

**GSM**

Wireless Radio: Quad-Band GSM 850/900/1800/1900 MHz

GSM Antenna: Internal Quad-Band

Antenna Connector: Reverse Polarity SMA

FCC Specification: Approved for use in the USA, Contains FCC ID QIPTC65

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
- 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
- Accuracy: ± 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

Contact Us

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

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- In U.S. toll free 1-800-564-4377
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