

HOBO U30 systems provide real-time access to data from any web browser. Whether you're tracking climate conditions for field research, or measuring energy usage in a commercial building, HOBO U30 monitoring systems deliver accurate, dependable data right to your desktop via Onset's HOBOlink web-based software (see page 55 for details).

Key Advantages:

- · Web-based energy and environmental monitoring
- All electronics are housed within an industrial-grade, tamperproof enclosure
- Setup is quick and easy with plug-and-play sensors
- Measures a wide range of energy and environmental parameters
- GSM Cellular, Wi-Fi, Ethernet, direct USB options available
- Works with Onset's E50B2 Power & Energy Meter to measure Power Factor (PF), Reactive Power (VAR), Watt Hours (Wh) and more

Industrial-grade dependability

HOBO U30 Remote Monitoring Systems deliver high accuracy measurements you can count on — in even the harshest environmental conditions. All at a fraction of the cost of competitive solutions.

Incorporating patented technology, all of the system's electronics are housed within a rugged double-weatherproof, tamperproof enclosure. This provides twice the protection and ensures years of reliable monitoring performance.

Fast, easy deployment

Plug-and-play architecture enables



any combination of Smart Sensors to be plugged in without extensive user programming, wiring, or calibration. Plug in your sensors,

connect the battery, and you're streaming real time data!

Learn More: See specifications on page 45 See pricing on pages 46-47

See page 55 to learn more about HOBOlink, a web-based software platform that provides access to the HOBO U30 Remote Monitoring Systems.

Wide range of measurements

HOBO U30 systems measure and record a wide range of parameters including:

INDOOR ENVIRONMENTAL

- Temperature
- Relative Humidity
- CO2
- Air Velocity
- VOCs

ENERGY/POWER

- kW & kWh
- Power Factor
- Volt Amp Reactive Hour
- Watt Hours
- Amp Hours
- True Power
- AC/DC Current
- AC/DC Voltage
- Differential Pressure
- Gauge Pressure
- Compressed Air Flow
- Reactive Power
- Volts-AmpsAmps

WEATHER

• Temp/RH

- Solar Radiation
- PAR
- Rainfall
- Wind Speed & Direction
- Wind Speed
- Soil Moisture
- Barometric Pressure
- Leaf Wetness

An optional analog sensor port provides sensor power with user-selectable warm-up time.

Available models include:

HOBO U30/GSM



- Buit-in GSM cellular means no IT roadblocks
- Double weather proof, tamperproof enclosure

HOBO U30/Wi-Fi



- Ruggedized hardware, with integrated Wi-Fi
- Get notified of problems via cell phone or email

HOBO U30/ETH



- Remote access to real-time data over Ethernet
- Simplifies facilitywide monitoring

HOBO U30/NRC



- Fast data offload via direct USB
- Optional analog inputs with sensor excitation

Wi-Fi Wireless Communications 2.412 - 2.484 GHz IEEE 802.11 b/g Ethernet 10Base-T or 100Base-TX (using external RJ45 jack) 256-bit AES Rijndael encryption Can be activated, deactivated or pulsed on user-defined sensor alarms. The relay can be configured as normally open or normally closed, (30V, 1A Max) Alarm Notification Latency Logging interval plus 2 to 4 minutes (typical) Certifications FCC Certified. Check www.onsetcomp.com for the latest certifications. (€ Sensor Network Cable Length 100 m (328 ft) maximum Normal Operating Range -20 to 40°C (-4 to 140°F) Extended Operating Range -40 to 60°C (-40 to 140°F) Extended Operating Range -40 to 60°C (-40 to 140°F) Extended Operating Range 100 m (328 ft) maximum Normal Operating Range -20 to 40°C (-40 to 140°F) Extended Operating Range -40 to 60°C (-40 to 140°F) Extended Operating Range 10 m io328 ft) module will not communicate below -30°C (-22°F) Local Communication USB Data Storage Memory 512K bytes local storage in non-volatile flash memory Operational Indicators LEDs show status Logging Interval 1 minute to 18 hours, user-specified Station-to-Internet 10 minutes minimum, user-specified (depends on HOBOlink data	Specifications			
Ethernet 10Base-T or 100Base-TX (using external RJ45 jack) 256-bit AES Rijndael encryption Alarm Relay Can be activated, deactivated or pulsed on user-defined sensor alarms. The relay can be configured as normality open or normally closed, (30V, 1A Max) Alarm Notification Latency Logging interval plus 2 to 4 minutes (typical) Ccc Certified. Check www.onsetcomp.com for the latest certifications. (Smart-Sensor Inputs 5 or 10 Data Channels Maximum of 15 (some sensors use more than one data channel) Sensor Network Cable Length 100 m (328 R) maximum Normal Operating Range -20 to 40°C (-4 to 140°F) Extended Operating Range -20 to 60°C (-40 to 140°F) see battery life, Note: the GSM module will not communicate below -30°C (-22°F) Local Communication USB Data Storage Memory 512K bytes local storage in non-volatile flash memory Doperational Indicators LEDs show status Logging Interval 1 minutes minimum, user-specified Station-to-Internet Upload Interval 10 minutes minimum, user-specified (depends on HOBOlink data service plan) Power An Onset solar panel (1.2w, 3w, 6w) or AC adapter is required Battery Life Typical 3-5 years depending upon conditions of use. Regular operation outside of the normal operating range will reduce battery life to 1-2 years.	GSM Wireless Communications	Quad-Band GSM/GPRS 850/900/1800/1900 MHz		
Can be activated, deactivated or pulsed on user-defined sensor alarms. The relay can be configured as normally open or normally closed, (30V, 1A Max) Alarm Notification Latency Logging interval plus 2 to 4 minutes (typical) Certifications FCC Certified. Check www.onsetcomp.com for the latest certifications. ((Smart-Sensor Inputs 5 or 10 Data Channels Maximum of 15 (some sensors use more than one data channel) Sensor Network Cable Length 100 m (328 ft) maximum Normal Operating Range -20 to 40°C (-4 to 140°F) extended Operating Range -20 to 40°C (-4 to 140°F) Kettended Operating Range -20 to 40°C (-4 to 140°F) Actional Indicators USB Data Storage Memory 512K bytes local storage in non-volatile flash memory Doperational Indicators LEDs show status Logging Interval 10 minutes minimum, user-specified Station-to-Internet Upload Interval 10 minutes minimum, user-specified Station-to-Internet Upload Interval Volt, 10 AHr, or 4.5 AHR Rechargeable Sealed Lead Acid Battery Type 4 Volt, 10 AHr, or 4.5 AHR Rechargeable Sealed Lead Acid Battery Type Yold, 10 AHr, or 4.5 AHR Rechargeable Sealed Lead Acid Dimensions 17.8 H x 11.7 D x 19.3 W cm (7.0 H x 4.6 D x 7.6 W inches)<	Wi-Fi Wireless Communications	2.412 - 2.484 GHz IEEE 802.11 b/g		
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Upload Interval10 minutes minimum, user-specified (depends on HOBOlink data service plan)PowerAn Onset solar panel (1.2w, 3w, 6w) or AC adapter is requiredBattery Type4 Volt, 10 AHr, or 4.5 AHR Rechargeable Sealed Lead AcidBattery LifeTypical 3-5 years depending upon conditions of use. Regular operation outside of the normal operating range will reduce battery life to 1-2 years.Environmental RatingWeatherproof; tested to NEMA 6Dimensions17.8 H x 11.7 D x 19.3 W cm (7.0 H x 4.6 D x 7.6 W inches)Weight2 kg (4.30 lbs.)MountingUp to 1.63 in (4.1 cm) mast or wall mountEnclosure AccessHinged door secured by two latches, which can be further secured with user-supplied padlocksDimensions2 channels - User-configured as either 0-20 mA or 0-20 VDCSensor PowerSwitched 12 VDC, up to 50 mA: user-selectable warm-up from 5 milliseconds to 2 minutesScalingLinear scaling to user units	Logging Interval	1 minute to 18 hours, user-specified		
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Battery Lifeoutside of the normal operating range will reduce battery life to 1-2 years.Environmental RatingWeatherproof; tested to NEMA 6Dimensions17.8 H x 11.7 D x 19.3 W cm (7.0 H x 4.6 D x 7.6 W inches)Weight2 kg (4.30 lbs.)MountingUp to 1.63 in (4.1 cm) mast or wall mountEnclosure AccessHinged door secured by two latches, which can be further secured with user-supplied padlocksOptional Analog Sensor PortOptional Analog Sensor PortInputs2 channels - User-configured as either 0-20 mA or 0-20 VDCSensor PowerSwitched 12 VDC, up to 50 mA: user-selectable warm-up from 5 milliseconds to 2 minutesLinear scaling to user unitsLinear scaling to user units	Battery Type	4 Volt, 10 AHr, or 4.5 AHR Rechargeable Sealed Lead Acid		
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Inputs 2 channels - User-configured as either 0-20 mA or 0-20 VDC Sensor Power Switched 12 VDC, up to 50 mA: user-selectable warm-up from 5 milliseconds to 2 minutes Scaling Linear scaling to user units	Enclosure Access			
Sensor Power Switched 12 VDC, up to 50 mA: user-selectable warm-up from 5 milliseconds to 2 minutes Scaling Linear scaling to user units		Optional Analog Sensor Port		
Scaling Linear scaling to user units	Inputs	2 channels - User-configured as either 0-20 mA or 0-20 VDC		
	Sensor Power	Switched 12 VDC, up to 50 mA: user-selectable warm-up from 5 milliseconds to 2 minutes		
Accuracy ±0.25% full scale	Scaling	Linear scaling to user units		
	Accuracy	±0.25% full scale		

Note: Some HOBO U30 models require high-speed internet access and a data plan with HOBOlink.com, an Onset-hosted and managed web service. See page 46 for more details.

Supplied in Australia by Instrument Choice Call our scientists on 1300 737 871 www.instrumentchoice.com.au

HOBO Remote Monitoring Systems with GSM Communications	GSM Cellular to Internet	<u>U30-GSM</u> <u>S100</u>	
Canada Dart Ontinga	No sensor port	000	
Sensor Port Options	2-channel analog sensor port	VIA	
	5 smart sensor inputs	05	
Smart Sensor Input Options	10 smart sensor inputs	10	
Battery Option	10 Ah rechargeable battery	S100	
Global Data Service (work with AT&T	20 minute calling (1 min log)	303	
and T-Mobile networks in the US;	30 minute calling (1 min log)	304	
includes HOBOlink service)*	20 calls per day (1 min log)	305	
T-Mobile-Only Plans (includes HOBO-	10 minute calling (1 min log)	102	
link Service)*	1 call per day (15 min log)	105	
AT&T-Only Plan (includes HOBOlink Service)*	10 minute calling (1 min log)	202	
See	onsetcomp com for the latest selection (of service plans	

See onsetcomp.com for the latest selection of service plans. *Early termination fees apply. A 200 fee will be assessed for terminating the service plan within 30 days. No refund will be applied for terminating the plan after 30 days.

HOBO Remote Monitoring Systems with Wi-Fi Communications**	Wi-Fi to Internet	<u>U30-WIF</u>
Sensor Port Options	No sensor port	000
	2-channel analog sensor port	VIA
	5 smart sensor inputs	05
Smart Sensor Input Options	10 smart sensor inputs	10
	4.5 Ah rechargeable battery	S045
Battery Option	10 Ah rechargeable battery required when using analog sensor port for sensor power	S100
	10 minute upload (1 sec log)	001
HOBOlink Data Service	10 minute upload (1 min log)	002
	1 hr uploads (5 min log)	003
	onsetcomp.com for the latest selection of minary and should not be used with U30 Ethernet to Internet	
with Ethernet Communications	No sensor port	000
Sensor Port Options	2-channel analog sensor port	VIA
	5 smart sensor inputs	05
Smart Sensor Input Options	10 smart sensor inputs	10
	4.5 Ah rechargeable battery	S045
Battery Option	10 Ah rechargeable battery required when using analog sensor port for sensor power	S100
	10 minute upload (1 sec log)	001
HOBOlink Data Service	10 minute upload (1 min log)	002
	1 hr uploads (5 min log)	003
See	onsetcomp.com for the latest selection o	of service plans.
HOBO Remote Monitoring Systems without remote communications	No remote communication	<u>U30-NRC</u> <u></u> - <u>000</u>

without remote communications	No remote communication	<u>U30-NRC</u>	 		-000	
Carrow Dark Oakiana	No sensor port	000				
Sensor Port Options	2-channel analog sensor port	VIA				
	5 smart sensor inputs	05				
Smart Sensor Input Options	10 smart sensor inputs	10				
	4.5 Ah rechargeable battery	S045				
Battery Options	10 Ah rechargeable battery required when using analog sensor port for sensor power	S100				
Data Plan	No data plan needed	000				
				г р		

Software (one required)

HOBO U30 Shuttle HOBOware Pro (Windows/Mac) U-DT-2 BHW-PRO-CD

See next page for Sensors and Accessories

Power Source Options

1.2 Watt Solar Panel for sunny locations and/or locations with low data transfer requirements (readout every 2 hours or longer). SOLAR-1.2W

3.0 Watt Solar Panel for moderately sunny locations and/or medium data transfer requirements (such as hourly readout). SOLAR-3W

6.0 Watt Solar Panel for cloudy locations and/or high data transfer requirements (faster than 15 minute readouts). SOLAR-6W

Weather Sensors

Temperature	
2-m cable	S-TMB-M002
6-m cable	S-TMB-M006
17-m cable	S-TMB-M017
Temp/RH	
2-m cable	S-THB-M002
8-m cable	S-THB-M008
Wind Speed/Direction	S-WCA-M003
Wind Speed Sensor	S-WSA-M003
Rain Gauge: (0.01 in)	S-RGA-M002
Rain Gauge: (0.2 mm)	S-RGB-M002
Soil Moisture (EC-5)	S-SMC-M005
Soil Moisture (10HS)	S-SMD-M005
Leaf Wetness	S-LWA-M003
PAR	S-LIA-M003
Solar Radiation	S-LIB-M003
Barometric Pressure	S-BPB-CM50
bal office in coourc	S DI D CI ISO

E50B2 Power & Energy Meter T-VER-E50B2 (requires 1 to 3 Pulse Input Adapters) Measurements: AC Current, AC Voltage, Amp Hour, Amps, Kilowatt Hours, Kilowatts, Power Factor, Volt-Amp Reactive, Volt-Amp Reactive Hour, Volt-Amps, Volts, Watt Hours, Watts

Sensors that require Pulse Input Adapter

kWh	
Wye config 208/240	T-WNB-3Y-208
Wye config opt P3	T-WNB-3Y-208-P
Delta/Wye config 208/240	T-WNB-3D-240
Delta/Wye config 480	T-WNB-3D-480
"B" Series Voltage Lead Set	A-WNB-LEADSET
Veris kWh	
1-phase, 300 Amp	T-VER-8051-300
3-phase, 800 Amp	T-VER-8053-800
Water Flow Meter	T-MINOL-130
Courses Adapters	

Sensor Adapters Pulse Input Adapter:

-Electronic Switch	S-UCC-M00x
-Contact Closure	S-UCD-M00x

Sensors that require Analog Sensor Port

Ashcroft Gauge Pressure	
100 psig	T-ASH-G2-100
200 psig	T-ASH-G2-200
500 psig	T-ASH-G2-500
Differential Air Pressure Transducer	1 ASH 62 500
.01-10.0 WC	T-VER-PXU-L
.01-10.0 WC	T-VER-PXU-X
CO ₂ /Temp	TEL-7001
CO ₃ /Temp Port Cable	CABLE-2070
kW	T-VER-8044-100
Duct-Mount Temp/RH	T-VAI-HMD-40Y
DC Amperage	T-VER-H970-080
DC Current	
0-200 Amp	T-VER-H970-200
	T-VER-971BP-200
-200-200 Amp	I-VER-9/16P-200
Air Velocity Sensor	
0.15-10 m/s	T-DCI-F900-L-P
0.15-5 m/s	T-DCI-F900-L-O
0.15-10 m/s	T-DCI-F900-S-P
0.15-5 m/s	T-DCI-F900-S-O
Compressed Air Flow Meter	
1-80 SCFM	T-CDI-5200-10S
3-350 SCFM	T-CDI-5200-105
3-350 SCFM	I-CDI-5400-205

AC Power Adapter (120V, 60Hz) for locations with AC power available. The adapter is not weatherproof. AC-U30

AC Power Adapter (EU) (240V, 50Hz) for locations with AC power available. The adapter is not weatherproof. AC-U30-EU

Sensors that require True RM TRMS Module AC Amperage	S Adapter S-FS-TRMSA-D
0-5 Amp 0-20 Amp 0-50 Amp 0-50 Amp 0-100 Amp 0-200 Amp 0-600 Amp	T-MAG-SCT-005 T-MAG-SCT-020 T-MAG-SCT-050 T-MAG-SCT-100 T-MAG-SCT-200 T-MAG-SCT-600
AC Amperage (mini CT)	
0-5 Amp 0-10 Amp 0-20 Amp 0-50 Amp 0-75 Amp AC Voltage	T-MAG-0400-05 T-MAG-0400-10 T-MAG-0400-20 T-MAG-0400-50 T-MAG-0400-75
0-150 Volt 0-300 Volt 0-600 Volt	T-MAG-SPT-150 T-MAG-SPT-300 T-MAG-SPT-600

Wind Monitor AQ	S-WCB-M003
Marine Wind Monitor	S-WCC-M003
Wind Sentry	S-WCD-M003
Wind Alpine	S-WCE-M003
Tripod/Masts and Accessories	
2m Tripod with Mast	
(M-SKB recommended)	M-TPB
Complete 2 Meter Tripod Kit	M-TPB-KIT
3m Tripod with Mast	
(M-SKA recommended)	M-TPA
Complete 3 Meter Tripod Kit	M-TPA-KIT
3 m Mast	M-MPA
1.5 m Mast	M-MPB
Guy Wire Kit	M-GWA
1/4 in. State Kit	M-SKB
1/2 in. State Kit	M-SKA
Grounding Kit	M-GKA
(does not provide protection from	direct lightning strikes)
Mast Level	M-MLA
(recommended for installing mast	s or tripods)
Half Cross Arm	M-CAB
(recommended for use with wind	sensors)
Solar Radiation Shield	RS3
(for use with temperature and ter	np/RH sensors)
Light Sensor Bracket	M-LBB
(for mounting PAR and solar radiati	on sensors on masts or flat
vertical surfaces)	
Light Sensor Level	M-LLA
(recommended for installing PAR	and solar radiation sensors)
NDVI Light Sensor Bracket	M-NDVI
Smart Sensor Extension Cables	
(total cable length of all sensor ca	bles is limited to 100 m (300 f
2-m length	S-EXT-M002
5-m length	S-EXT-M005
10-m length	S-EXT-M010
25-m length	S-EXT-M025
Weatherproof Connection Housing	
(required for outside connections)	S-EXT-CASE
1 to 2 Sensor Adapter	S-ADAPT-5
This allows a single Smart Sensor inp	ut to branch to two Smart Sensor
	M CDV
Cable Caddy	M-CDY

For more details on accessories, see page 50

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