HOBO U12 data loggers provide high-accuracy monitoring of temperature, humidity and other parameters. They provide 12-bit resolution measurements for detecting greater variability in recorded data, direct USB connectivity for convenient, high-speed data offload, and a 43K measurement capacity. They also feature rugged enclosures for enhanced product durability.

Key Advantages:

- Large memory for long-term deployments or fast sampling
- Five models to choose from, with flexible measurement options
- Programmable as well as push-button start

Data Loggers/ Indoor Environments

Memory:	43,000 measurements
Sample rate:	1 second to 18 hours, user-selectable
Battery life:	1 year (typical)—user-replaceable $C\epsilon$

Temperature

Measurement range:	-20° to 70°C (-4° to 158°F)
Accuracy:	± 0.35°C from 0° to 50°C (0.63°F from 32° to 122°F)
Resolution (12-bit):	0.03°@ 25°C (0.05°@ 77°F)
Response time:	6 minutes (to 90% in airflow of 1 m/s)

NIST-traceable temperature accuracy certificate available. (See page 72)

Relative Humidity (RH)

Measurement range:	5% to 95% RH
Accuracy:	±2.5% typical, 3.5% maximum, from 10 to 90% RH
Resolution (12-bit):	0.03% RH
Response time:	1 minute (to 90% in airflow of 1 m/s)

Light Intensity

	Designed for general purpose indoor measurement of relative light levels
Range:	1 to 3000 footcandles (lumens/ft^2) typical
	0-32,300 lumens/m^2 [0-3,000 footcandles (lumens/ft^2)]

External Input

External sensors for temperature, AC current, AC voltage, CO_2, 4-20 mA, 0-10 VDC
(see sensors page 57)

Input range:	0 to 2.5 VDC
Accuracy:	±2 mV, ±2.5% of absolute reading
Resolution (12-bit):	0.6 mV
Output power:	2.5 VDC at 2 mA, active only during measurements

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www.instrumentchoice.com.au

HOBO U12 Model Comparison

		Temperature	4 External	Temp/RH	Temp/RH/Light/Ext	Temp/RH/2 Ext
		U12-001	U12-006	U12-011	U12-012	U12-013
Number of Channels		1	4	2	4	4
Internal Sensors	Temperature	yes	--	yes	yes	yes
	Relative Humidity	--	--	yes	yes	yes
	Light Intensity	--	--	--	yes	--
External Sensors		--	yes	--	yes	yes
Size	cm	5.8 x 7.4 x 2.2	5.8 x 7.4 x 2.2	5.8 x 7.4 x 2.2	5.8 x 7.4 x 2.2	5.8 x 7.4 x 2.2
	inches	2.3 x 2.9 x 0.9	2.3 x 2.9 x 0.9	2.3 x 2.9 x 0.9	2.3 x 2.9 x 0.9	2.3 x 2.9 x 0.9
Weight	grams	46	46	46	46	46
	ounces	1.6	1.6	1.6	1.6	1.6

Complete system requires logger and software.

Ordering Information

Data Loggers
HOBO U12 Temp — U12-001
HOBO U12 4 Ext Channels — U12-006
HOBO U12 Temp/RH — U12-011
HOBO U12 Temp/RH/Light/Ext Channel — U12-012
HOBO U12 Temp/RH/2 Ext Channels — U12-013
kW**
3 Phase, 450V, 100 AMP — T-VER-8044-100
Gauge Pressure**†
100 psig — T-ASH-G2-100
200 psig — T-ASH-G2-200
500 psig — T-ASH-G2-500
Differential Air Pressure Transducer**†
0.01-10.0 WC — T-VER-PXU-L
0.01-10.0 WC — T-VER-PXU-X
Humidity**†
Duct-Mount RH/Temp — T-VAI-HMD-40Y
DC Current**†
0-200 Amp — T-VER-H970-200
-200 to 200 Amp — T-VER-971BP-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-5400-20S
Volatile Organic Compound (VOC)**†
0-10, 0-100, 0-1000 ppm — T-ION-TVOC

Temperature Sensors
Air/Water/Soil Probe 0.3m (1ft) — TMC1-HD
Air/Water/Soil Probe 1.8m (6ft) — TMC6-HD
Air/Water/Soil Probe 6.1m (20ft) — TMC20-HD
Air/Water/Soil Probe 15.2m (50ft) — TMC50-HD
Stainless Steel Temp Probe 1.8m (6ft) — TMC6-HC
Pipe Temp 1.8m (6ft) — TMC6-HE
Split-core AC Current Sensors
0-20 Amps AC — CTV-A
0-50 Amps AC — CTV-B
0-100 Amps AC — CTV-C
0-200 Amps AC — CTV-D
0-600 Amps AC — CTV-E
CO_2**
Telaire CO_2/Temp Monitor — TEL-7001
AC Voltage Transmitters**
0 - 150 Volts AC — T-CON-ACT-150
0 - 300 Volts AC — T-CON-ACT-300
DC Voltage
0 - 2.5 Volts DC — CABLE-2.5-STEREO
0 - 5 Volts DC — CABLE-ADAP5
0 - 10 Volts DC — CABLE-ADAP10
Milliamps
4 - 20mA — CABLE-4-20MA
Software
HOBOware Pro Software (Windows/Mac) — BHW-PRO-CD
Optional Communications
HOBO U-Shuttle* — U-DT-1

* Requires HOBOware Pro software, see page 52 for details. HOBOware includes USB interface cable.
** Requires input cables. See page 57 for compatibility.
† Requires sensor power adapter (AC-SENS-1) See page 57 for compatibility.

HOBOware Software is available for download via the web. Visit onsetcomp.com for details.

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