

- 12-bit resolution provides high accuracy
- 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



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

Temperature

Measurement range: -20° to 70°C (-4° to 158°F)
 Accuracy: ±0.4°@ 25°C (±0.63°@ 77°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.

Relative Humidity (RH)

Measurement range: 5% to 95% RH
 Accuracy: ±2.5% RH from 10% to 90% over range
 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/ft²) typical
 0-32,300 lumens/m² [0-3,000 footcandles (lumens/ft²)]

External Input

External sensors for temperature, AC current, AC voltage, CO₂, 4-20 mA, 0-2.5 VDC (see sensors pages 8 and 9)
 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

HOBO U12 Model Comparison & Ordering Information

		Temperature HOBO U12	4 External HOBO U12	Temp/RH HOBO U12	Temp/RH/Light/ Ext HOBO U12	Temp/RH/2 Ext HOBO U12
Product Number		 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, software and communications.

Software and Communications

Software*

HOBOware Pro Software (Windows®)	BHW-PC
HOBOware Pro Software (Mac®)	BHW-MAC
HOBOware Lite Software (Windows/Mac)	BHW-LITE
<i>HOBOware includes USB interface cable</i>	

Optional Communications

HOBO U-Shuttle	U-DT-1
USB to Ethernet Server	SERVER-US-4

**Compatible with HOBOware Pro or HOBOware Lite software. See pages 28 and 30 for details.*