

Datenblatt: HOBO U 12 Datenlogger

- 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

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.
(See page 41)*

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
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
	Relative Humidity	—	—	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
	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
Weight	grams	46	46	46	46
	ounces	1.6	1.6	1.6	1.6

Software: HOBOWare Lite (BHW-Lite) Englische Version

- Microsoft Windows XP oder Windows 2000
- Mind. 256 MB RAM
- 3,5 MB freier Speicher auf Hdd
- USB Port
- 800x600 Auflösung

