



HOBO® U12 Logger

Multi-channel energy & environmental monitoring

HOBO U12 data loggers provide flexibility for monitoring up to 4 channels of energy and environmental data with a single, compact logger. They provide 12-bit resolution measurements for detecting greater variability in recorded data, direct USB connectivity for convenient, fast data offload, and a 43K measurement capacity.

Supported Measurements: Temperature, Relative Humidity, Dew Point, 4-20mA, AC Current, AC Voltage, Air Velocity, Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Gauge Pressure, Kilowatts, Light Intensity, Volatile Organic Compound (some sensors sold separately)

Key Advantages:

- Records up to 4 channels
- Your choice of three models, with flexible measurement options
- Programmable as well as push-button start
- Compatible with a broad range of external sensors

Minimum System Requirements:



Software



USB cable*



Part number	U12-012 (Temp/RH/Light/Ext)	U12-013 (Temp/RH/2 Ext)
Memory	43,000 measurements	
Sampling rate	1 second to 18 hours, user-selectable	
Battery life	1 year typical, user-replaceable, CR2032	
Temperature		
Max 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°C @ 25°C (0.05°F @ 77°F)	
Relative Humidity		
Measurement range	5% to 95% RH (non-condensing)	
Accuracy	±2.5% from 10%RH to 90%RH typical to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10%RH and above 90%RH ±5% typical	
Resolution (10-bit)	0.05%RH	
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	
External Input		
Range	0 to 2.5 VDC	
Accuracy	± 2 mV, ± 2.5% of absolute reading	
Resolution	0.6 mV	
CE compliant	Yes	

For stand-alone data logging applications in harsh indoor environments, see the 4-channel HOBO U12 Industrial data logger (U12-008) at onsetcomp.com