

HOBO Pendant Loggers



HOBO Pendant data loggers are economical, weatherproof and waterproof temperature data loggers designed for a variety of short and long-term monitoring applications.

Key Advantages:

- Low-cost temperature, light intensity, and acceleration loggers
- Waterproof housing for wet or underwater use
- Data readout in less than 30 seconds via fast Optic USB interface



BASE-U-1 is required with these loggers

Weatherproof housing tested to NEMA 6 and IP67

HOBO Pendant Loggers

Memory: UA-001-08 — 6,500 temperature measurements
 UA-001-64 — 52,000 temperature measurements
 UA-002-08 — 3,500 temperature & light measurements
 UA-002-64 — 28,000 temperature & light measurements
 Sample rate: 1 second to 18 hours, user-selectable
 Battery life: 1-year (typical)—user-replaceable
 Water Depth Rating: 30m from -20 to 20°C (100' from -4° to 68°F) CE

Temperature

Measurement range: -20° to 70°C (-4° to 158°F) in air
 -20° to 50°C (-4° to 122°F) in water
 Accuracy: ± 0.54°C from 0° to 50°C (0.97°F from 32° to 122°F)
 Resolution (10-bit): 0.1°@ 25°C (0.2°@ 77°F)
 Response Time: 15 minutes (to 90% in airflow of 1 m/s)
 5 minutes (to 90% in water)

NIST-traceable temperature accuracy certification available.

Light Intensity

UA-002-08 & UA-002-64 only
 Designed for general purpose measurement of relative light levels
 Range: 0-323,000 lumens/m² [0-30,000 footcandles (lumens/ft²)]

HOBO Pendant G

Memory: UA-004-64 — 64,000 1-axis measurement
 — 32,000 2-axes measurements
 — 21,333 3-axes measurements
 Sample rate: 100 per second (100 Hz) to 18 hours, user-selectable
 Battery life: 1-year (typical)—user-replaceable
 Operating range: -20° to 70°C (-4° to 158°F) in air
 -20° to 50°C (-4° to 122°F) in water CE

Acceleration






Measurement range: ± 3 G
 Accuracy: ±2.5% FS @ 25°C (77°F)—Factory-calibrated
 Resolution (8-bit): 0.02 G

Tilt/Motion

Measurement range: 0° to 180° from vertical
 Accuracy: ±4.3° @ 90° to ±22.3° @ 0° and 180°
 Resolution (8-bit): ±4.3° @ 90° to ±13° @ 0° and 180°



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HOBO Pendant Comparison						
		Temperature w/ Alarm Logger	Temperature w/ Alarm Logger	Temperature/ Light Logger	Temperature/ Light Logger	Acceleration/ Tilt/Motion
						
		UA-001-08	UA-001-64	UA-002-08	UA-002-64	UA-004-64
Number of Channels		1	1	2	2	3
Internal Sensors	Temperature	yes	yes	yes	yes	--
	Light Intensity	--	--	yes	yes	--
	Acceleration	--	--	--	--	yes
Size	cm	5.8 x 3.3 x 2.3	5.8 x 3.3 x 2.3	5.8 x 3.3 x 2.3	5.8 x 3.3 x 2.3	5.8 x 3.3 x 2.3
	inches	2.3 x 1.3 x 0.9	2.3 x 1.3 x 0.9	2.3 x 1.3 x 0.9	2.3 x 1.3 x 0.9	2.3 x 1.3 x 0.9
Hole in mounting bail	mm	3.2	3.2	3.2	3.2	3.2
	inches	0.13	0.13	0.13	0.13	0.13
Weight	grams	18	18	18	18	18
	ounces	0.6	0.6	0.6	0.6	0.6

Complete system requires logger, software and base station or shuttle.

Ordering Information	
Data Loggers	
HOBO Pendant Temperature w/Alarm, 8k	UA-001-08
HOBO Pendant Temperature w/Alarm, 64k	UA-001-64
HOBO Pendant Temperature w/Light, 8k	UA-002-08
HOBO Pendant Temperature w/Light, 64k	UA-002-64
HOBO Pendant Acceleration/Tilt/Motion	UA-004-64
Software	
HOBOware Pro Software (Windows/Mac)	BHW-PRO-CD
Pendant Base Station**	BASE-U-1
Optional Communications and Accessories	
HOBO U-Shuttle (requires Base Station)*	U-DT-1
HOBO Waterproof Shuttle with Couplers*	U-DTW-1
Solar Radiation Shield***	M-RSA
* Requires HOBOware Pro software.	
** HOBO Waterproof Shuttle or Optic USB Base Station (BASE-U-4) may be used instead of the Pendant Base Station (BASE-U-1).	
*** Accurate temperature measurements in sunlight require a radiation shield. HOBOware includes USB interface cable	



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