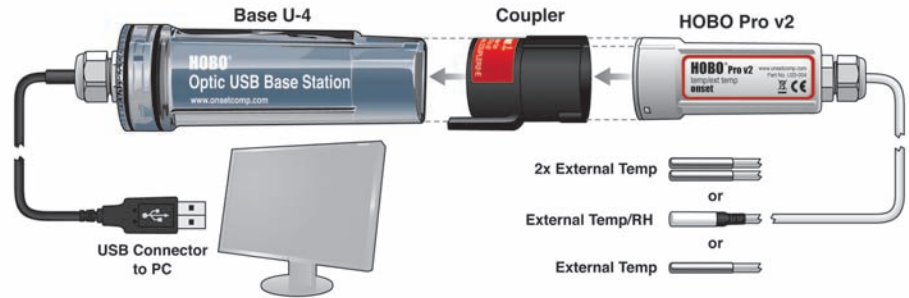




HOBO Pro v2 data loggers are weatherproof loggers that provide high accuracy temperature and relative humidity measurements.

Key Advantages:

- Weatherproof housing for use in outdoor or condensing environments
- High-accuracy measurements
- Replaceable RH sensor provides superior recovery from condensing conditions
- Small-diameter, external sensor versions for measurements in tight spaces
- Optic USB interface for fast and reliable download



BASE-U-4 or U-DTW-1 is required with this logger (coupler is include). CE

Memory: 42,000 measurements
 Sample rate: 1 second to 18 hours, fixed rate or multiple logging intervals
 Battery life: 3 years (typical)—user-replaceable

Internal Temperature

Measurement range: -40° to 70°C (-40° to 158°F)
 Accuracy: ± 0.21°C from 0° to 50°C (0.36°F from 32° to 122°F)
 Resolution (12-bit): 0.02°@ 25°C (0.04°@ 77°F)
 Response time: 40 minutes (to 90% in airflow of 1 m/s)

Relative Humidity (RH)

Measurement range: 0 to 100% RH
 Accuracy: ± 2.5% typical, 3.5% maximum, from 10 - 90% RH
 Resolution (12-bit): 0.03% RH
 Response time: U23-001: 10 minutes (90% in airflow of 1 m/s; RH change only)
 U23-002: 5 minutes (90% in airflow of 1 m/s)





External Temperature

Measurement range: U23-002: -40° to 70°C (-40° to 158°F)
 U23-003 & U23-004: -40° to 100°C (-40° to 212°F);
 sensor tip and cable immersion in fresh water up to 50°C (122°F) for one year
 Accuracy: ± 0.2°C from 0° to 50°C (0.36°F from 32° to 122°F)
 Resolution (12-bit): 0.02°@ 25°C (0.04°@ 77°F)
 Response time: U23-002: 5 minutes (to 90% in airflow of 1 m/s)
 U23-003 & U23-004: 3 minutes (to 90% in airflow of 1 m/s)
 30 seconds (to 90% in water)

NIST-traceable temperature accuracy certification service available for all temperature sensors. (See page 72)

Supplied in Australia by Instrument Choice
 Call our scientists on 1300 737 871
www.instrumentchoice.com.au

HOBO Pro v2 Comparison

		Internal Temp/RH	External Temp/RH	2x External Temp	Temp/External Temp
		 U23-001*	 U23-002*	 U23-003	 U23-004
Number of Channels		2	2	2	2
Internal Sensors	Temperature	yes	--	--	yes
	Relative Humidity	yes	--	--	--
Integrated External Sensors	Temperature	--	yes	yes	yes
	Relative Humidity	--	yes	-	--
Size	cm	10.2 x 3.8	10.2 x 3.8	10.2 x 3.8	10.2 x 3.8
	inches	4.0 x 1.5	4.0 x 1.5	4.0 x 1.5	4.0 x 1.5
	probe	--	1 cm (0.38 in) diameter probe on 1.8 m (6 ft) cable	0.5 cm (0.2 in) diameter probe on 1.8 m (6 ft) cable	0.5 cm (0.38 in) diameter probe on 1.8 m (6 ft) cable
Weight	grams	57	118	138	102
	ounces	1.5	3.1	3.7	2.7

* Replaceable RH Sensors available. Complete system requires logger, software, and base station or shuttle U-DTW-1.

Ordering Information

Data Loggers

HOBO Pro v2 Internal Temp/RH	U23-001
HOBO Pro v2 External Temp/RH	U23-002
HOBO Pro v2 External Temp	U23-003
HOBO Pro v2 Internal Temp/External Temp	U23-004

Software

HOBOWare Pro Software (Windows®/Mac®)	BHW-PRO-CD
HOBOWare Lite Software (Windows/Mac)	BHW-LITE-CD
Optic USB Base Station* with Couplers	BASE-U-4

Optional Communications and Accessories

HOBO U-Shuttle (requires Base Station)***	U-DT-1
HOBO Waterproof Shuttle with Couplers***	U-DTW-1
Solar Radiation Shield** (U23-001 only)	RS1
Assembled Solar Radiation Shield** (U23-001 only)	M-RSA
Solar Radiation Shield** U23-002, 003, 004	RS3
Mounting Clamp (for mounting U23-001 and 004 in RS1 or M-RSA)	U23-RS-CLAMPKIT
Replaceable RH Sensor for U23-001	HUM-RHPCB-1
Replaceable RH Sensor for U23-002	HUM-RHPCB-2
Replaceable RH Sensor Caps for U23-002 (5 pack)	HUM-RHCAP-2

* HOBO Waterproof Shuttle can also be used as a Base Station (See pages 70-71 for details on Data Shuttles and Base Stations).

** Accurate temperature and RH measurements in sun require a radiation shield. Use the RS1 or M-RSA for internal sensors and the RS3 for external sensors.

*** Requires HOBOWare Pro software, see page 52 for details.

HOBOWare software is available for download via the web. Visit onsetcomp.com for details.

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