

- 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 included with these).

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: ±0.18°@ 25°C (±0.32°@ 77°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 & 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: ±0.18°@ 25°C (±0.32°@ 77°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 41 for details.

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

HOBO Pro v2 Comparison & Ordering Information

		Internal Temp/RH HOBO Pro v2	External Temp/RH HOBO Pro v2	2x External Temp HOBO Pro v2	Temp/External Temp HOBO Pro v2
					
Product Number		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

Complete system requires logger, software and base station.

** Replaceable RH Sensors Available*

Software, Communications and Accessories

Software

HOBOWare® Pro Software (Windows®/Mac®)

HOBOWare Lite Software

Optic USB Base Station* with Couplers

BHW-PRO-CD

BHW-LITE-CD

BASE-U-4

Optional Communications and Accessories

HOBO U-Shuttle (requires Base Station)***

HOBO Waterproof Shuttle with Couplers***

Solar Radiation Shield** (U23-001 only)

Assembled Solar Radiation Shield** (U23-001 only)

Solar Radiation Shield**

U23-002, 003, 004

Mounting Clamp

(for mounting U23-001 and 004 in RS1 or M-RSA)

Replaceable RH Sensor for U23-001

Replaceable RH Sensor for U23-002

Replaceable RH Sensor Caps for U23-002 (5 pack)

U-DT-1

U-DTW-1

RS1

M-RSA

RS3

U23-RS-CLAMPKIT

HUM-RHPCB-1

HUN-RHPCB-2

HUM-RHCAP-2

* HOBO Waterproof Shuttle can also be used as a Base Station (See pages 38-40 for details on Data Shuttles and Base Stations).

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

*** Requires HOBOWare Pro software. See page 36 and 37 for details.

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