

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

Temp/RH
#U23-001



Size/Weight:
10.2 x 3.8 cm
(4.0 x 1.5 in)

- U23-001** 57 g (1.5 oz)
- U23-002** 118 g (3.1 oz)
- U23-003** 138 g (3.7 oz)
- U23-004** 102 g (2.7 oz)

Ext Temp/RH
#U23-002



2x Ext Temp
#U23-003



Temp/Ext Temp
#U23-004



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

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/sec)

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% (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/sec)
U23-003 & U23-004: 3 minutes (to 90% in airflow of 1 m/sec)
30 seconds (to 90% in water)

Relative Humidity

Measurement range: 0 to 100% RH
Accuracy: ±2.5% RH from 10% to 90%
Resolution (12-bit): 0.03% RH
Response time: U23-001: 10 minutes typical (to 90% in airflow of 1 m/sec; RH change only)
U23-002: 4 minutes typical (to 90% in airflow of 1 m/sec; RH change only)

NIST-traceable temperature accuracy certificate available

HOBO Pro v2 Ordering Information

| Description | Part No. |
|---------------------------|----------|
| HOBO Pro v2 Temp/RH | U23-001 |
| HOBO Pro v2 Ext Temp/RH | U23-002 |
| HOBO Pro v2 2x Ext Temp | U23-003 |
| HOBO Pro v2 Temp/Ext Temp | U23-004 |

Software and Communications

| | |
|---------------------------------------|----------|
| HOBOware® Pro Software (Windows®) | BHW-PC |
| HOBOware Pro Software (Mac) | BHW-MAC |
| HOBOware Lite Software (Windows/Mac) | BHW-LITE |
| Optic USB Base Station* with Couplers | BASE-U-4 |

Optional Communications

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|--|---------|
| HOBO U-Shuttle | U-DT-1 |
| HOBO Waterproof Shuttle* with Couplers | U-DTW-1 |

**HOBO Waterproof Shuttle can also be used as a Base Station*