



U23-002A

HOBO U23 Pro v2 ????/??????????

Discontinued

????????????6????????????????????????????????????

Important Information

??HOBOWare???Optic USB???HOBO???????U-DTW-1????HOBO????????HOBOWare Pro??????????



Compatible with
HOBOWare® ??

Supported Measurements

??, ????, ??

Features

- ????????????????
- ???
- ??????????????????????
- ?????????????????????
- ??USB???????????????

What's in the box

- HOBO U23-002 Pro v2 ??????????
- ???????
- ???????

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

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HOBO U23 Pro v2 / (U23-002A) Specifications

General

Model	U23-001A internal sensor: -40 to 70°C (-40 to 158°F) U23-002A external temperature sensor: -40 to 70°C (-40 to 158°F) U23-003 and U23-004 external sensors: -40 to 100°C (-40 to 212°F), with tip and cable immersion in fresh water up to 50°C (122°F) for one year
Operating Temperature	U23-001A and U23-002A: ±0.25°C from -40 to 0°C (±0.45 from -40 to 32°F), ±0.2°C from 0 to 70°C (±0.36 from 32 to 158°F) U23-003 and U23-004: ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F); see Plot A
Accuracy	U23-001A and U23-002A: 0.04°C (0.072°F) U23-003 and U23-004: 0.02°C at 25°C (0.04°F at 77°F); see Plot A
Response Time	U23-001A internal sensor: 10 minutes in air moving 1 m/sec U23-002A external temperature sensor: 3 minutes, 45 seconds in air moving 1 m/sec U23-003 and U23-004 external sensors: 3 minutes in air moving 1 m/sec; 30 seconds in stirred water
Drift	U23-001A and U23-002A: <0.01°C (0.018°F) per year U23-003 and U23-004: <0.1°C (0.18°F) per year

Humidity Specifications

Operating Humidity	0 to 100% RH, -40° to 70°C (-40° to 158°F) Exposure to conditions below -20°C (-4°F) or above 95% RH may temporarily increase the maximum RH sensor error by an additional 1%
Accuracy	±2.5% from 10% to 90% RH typical to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10% and above 90% ±5% typical
Resolution	0.05%
Response Time	U23-001A: 40 minutes in air moving 1 m/sec with protective cap U23-002A: 15 seconds in air moving 1 m/sec
Drift	<1% per year typical

Physical Characteristics

????	-40°?70°C (-40°?158???)
????	??±1?? 0°C?50°C (32????122???)
??	1/2 AA, 3.6 Volt lithium, user-replaceable (HP-B)
????????????	3 years with 1 minute or greater logging interval
??????????	64K bytes memory (approx. 21,000 temperature and RH measurements)
??	All models: ASA styrene polymer housing and mounting clamp; polypropylene protective cap; Buna-N o-ring(s); U23-001A, U23-002A only: ASA styrene polymer RH sensor cap; modified hydrophobic polyethersulfone membrane
??	U23-001A: No cables U23-002A: One 184 cm (6 ft) PVC cable; sensor diameter 1 cm (0.38 in.) U23-003: Two 184 cm (6 ft) PVC cables; sensor diameter 0.5 cm (0.20 in.) U23-004: One 184 cm (6 ft) PVC cable; sensor diameter 0.5 cm (0.20 in.)
????	Electronics housing is NEMA 6P equivalent (tolerant of brief submergence); Units with RH sensors are NEMA 4 equivalent (splash-resistant)
????	Immediate start; delayed start
??????	Fixed-rate or multiple logging intervals, with up to 8 user-defined logging intervals and durations; logging intervals from 1 second to 18 hours
????	Offload while logging; stop and offload
????	Battery voltage can be viewed in status screen and optionally logged in datafile. Low battery indication in datafile.
??	U23-001A: 57 g (1.5 oz); U23-002A: 118 g (3.1 oz); U23-003: 138 g (3.7 oz); U23-004: 102 g (2.7 oz)
??	?????10.2 × 3.8 ?? (4.0 × 1.5 ??)
NIST??	Temperature certificate available for additional charge

