Onset Computer Corporation

HOBO UX100 Temp/RH 3.5% Data Logger - UX100-003

Measures:

Temperature, Relative Humidity

Features:

- Easy-to view LCD display
- Large memory capacity
- Visual high & low alarm thresholds
- New Burst and Statistics logging modes
- User-replaceable RH sensor
- Compatible with HOBOware and HOBOware Pro software for logger setup, graphing and analysis

Qty	1-9	10-99	100+
$US	$89	$83	$76

Contact Onset at 1-800-564-4377

Description:

The HOBO UX100-003 Temp/RH data logger records temperature and relative humidity (within 3.5% accuracy) in indoor environments with its integrated sensors. The logger is ideal for monitoring occupant comfort in office buildings, tracking food storage conditions in warehouses, logging temperature trends in server rooms, and measuring humidity levels in museums.

Detailed Specifications:

Temperature Sensor

Range: -20Â° to 70Â°C (-4Â° to 158Â°F)

Accuracy: Â±0.21Â°C from 0Â° to 50Â°C (Â±0.38Â°F from 32Â° to 122Â°F), see Plot A

Resolution: 0.024Â°C at 25Â°C (0.04Â°F at 77Â°F); see Plot A

Response Time: 4 minutes in air moving 1 m/s (2.2 mph)

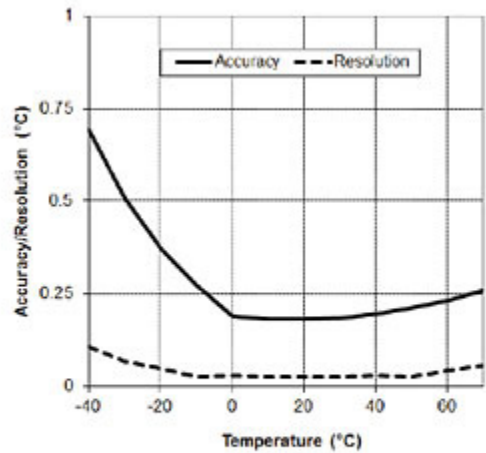**Drift:** <0.1Â°C (0.18Â°F) per year

RH Sensor

Range: 15% to 95%

Accuracy:
Â±3.5% from 25% to 85% over the range of 15Â° to 45Â°C (59Â° to 113Â°F) including hysteresis; Â±5% from 25% to 95% over the range of 5Â° to 55Â°C (41Â° to 131Â°F) including hysteresis, see Plot B
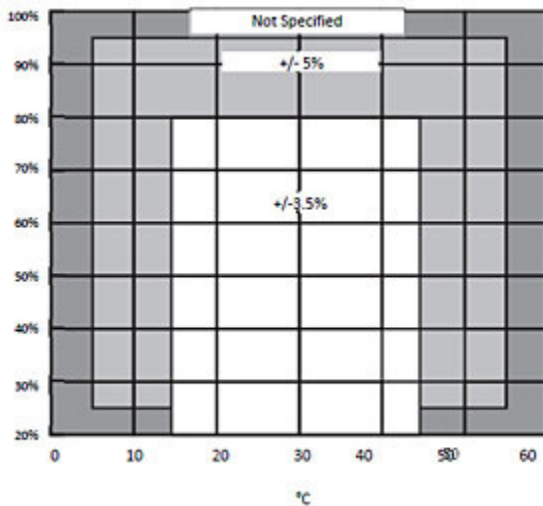
Resolution: 0.07% at 25Â°C (77Â°F) and 30% RH

Response Time: 43 seconds to 90% in airflow of 1 m/s (2.2 mph)

Drift: <1% per year typical

Plot A: Temperature Accuracy and Resolution

Plot B: RH Accuracy

Logger

Logger Operating Range:
Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)
Launch/Readout: 0° to 50°C (32° to 122°F) per USB specification

Logging Rate: 1 second to 18 hours, 12 minutes, 15 seconds

Logging Modes: Normal, Burst or Statistics

Memory Modes: Wrap when Full or Stop when Full

Start Modes: Immediately, Push Button, Date & Time or Next Interval

Stop Modes: When Memory Full, Push Button, or Date & Time

Restart Mode: Push Button

Time Accuracy: ±1 minute per month at 25°C (77°F), see Plot C

Battery Life: 1 year, typical with logging rate of 1 minute and sampling interval of 15 seconds or greater

Battery Type: One 3V CR2032 lithium battery

Memory: 128 KB (84,650 measurements, maximum)

Download Type: USB 2.0 interface
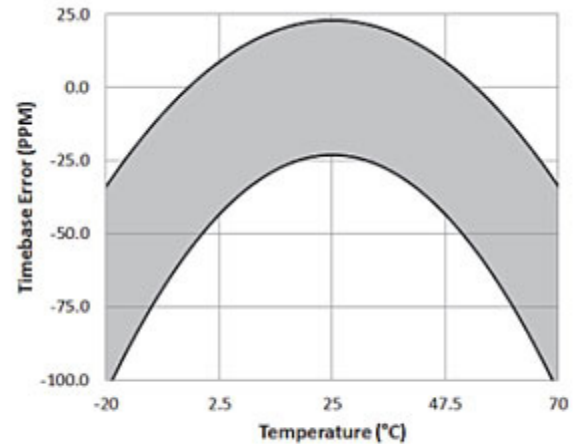
Full Memory Download Time: 20 seconds

LCD: LCD is visible from: 0° to 50°C (32° to 122°F); the LCD may react slowly or go blank in temperatures outside this range

Size: 3.66 x 5.94 x 1.52 cm (1.44 x 2.34 x 0.6 in.)

Weight: 30 g (1.06 oz)

Environmental Rating: IP50

CE - The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)

Plot C: Time Accuracy