



## HOBO<sup>®</sup> UX90-005 Data Logger

### Occupancy/Light (5m Range) Data Logger

The HOBO Occupancy & Light data logger monitors room occupancy and indoor light changes to identify occupancy patterns and determine energy usage and potential savings. The HOBO UX90-005 Room Occupancy/Light Data Logger is available in a standard 128 KB memory model (UX90-005) capable of 84,650 measurements and an expanded 512KB memory version (UX90-005M) capable of over 346,795 measurements.

#### Supported Measurements:

Light On/Off and Occupancy

#### Key Advantages:

- Measures room occupancy up to 5 meters away
- Auto-calibration of ON and OFF thresholds ensures reliable readings
- LCD screen displays signal strength, enabling proper logger placement
- Highly recommended light pipe accessory eliminates effects of ambient light to ensure the most accurate readings
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing and analysis



## HOBO UX90-005 Data Logger Specifications

### Occupancy Sensor

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**Detection range:** UX90-005x: maximum 5 m (16.4 ft)

#### Detection Performance

**UX90-005x:** 94° ( $\pm 47^\circ$ ) Horizontal; 82° ( $\pm 41^\circ$ ) Vertical (see Figure A)

**UX90-006x:** 102° ( $\pm 51^\circ$ ) Horizontal; 92° ( $\pm 46^\circ$ ) Vertical (see Figure B)

#### Detection Zones

**UX90-005x:** 64 (see Figure A)

**UX90-006x:** 92 (see Figure B)

### Light Sensor

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**Light threshold:** > 65 lux

**Light type:** LED, CFL, fluorescent, HID, incandescent, natural

### Logger

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**Time accuracy:**  $\pm 1$  minute per month at 25°C (77°F) (see Plot A)

**Battery life:** 1 year typical use

#### Memory

**UX90-005/-006:** 128 KB (84,650 measurements, maximum)

**UX90-005M/-006M:** 512 KB (346,795 measurements, maximum)

**Download type:** USB 2.0 interface

**Download time:** 10 seconds for 128 KB; 30 seconds for 512 KB

#### 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

**Occupancy sensor range:** 20° to 60°C (-4° to 140°F); 15 to 85% RH (non-condensing)

**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

**UX90-005x:** 3.66 x 8.48 x 2.36 cm (1.44 x 3.34 x 0.93 in.)

**UX90-006x:** 3.66 x 8.48 x 2.87 cm (1.44 x 3.34 x 1.13 in.)

**Weight:** 30 g (1.06 oz)

**Environmental rating:** IP50

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

## Contact Us

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

- ▶ Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-800-564-4377
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Technical Support (8am to 8pm ET, Monday through Friday)

- ▶ Contact Product Support [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- ▶ Call 1-508-759-9500
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