

QUICK SHEET

EXTECH HD450 datalogging light meter

LOCATION of EQUIPMENT:

Hardware: See lab attendant

Software: Light Meter

INSTRUCTIONS FOR USE:

1. Press the power button to turn the device on and off. If nothing happens you may need to replace the battery.
2. Plug the sensor into the top of the device.
3. Press the UNITS button to toggle between LUX and footcandles.
4. Remove the cap on the sensor and press the RANGE APO button to select one of four ranges; 40, 400, 4k, 40k. You will want to adjust you range if the screen says "OL."
5. Place the sensor on a horizontal surface so that the white dome is facing up at the light source.
6. To freeze the LCD display, momentarily press the HOLD button. 'MANU HOLD' will appear on the LCD. Momentarily press the HOLD button again to return to normal operation
7. The Peak Hold function allows the meter to capture short duration light flashes. The meter can capture peaks down to 10mS in duration.
8. The MAX-MIN function allows the meter to store the highest (MAX) and lowest (MIN) readings.
9. The Relative Mode function allows the user to store a reference value in the meter. All displayed readings will be relative to the stored reading.
10. When done recording/logging, unplug the sensor from the handheld unit

To Set up Data Logging:

In this mode, the ▲ and ▼ arrow buttons will allow adjustment of the selected (flashing) digits.

The ◀ and ▶ buttons will scroll to the next or previous selection.

1. Power the meter, then press and the REC/SETUP and UNITS buttons simultaneously to enter the Setup mode. The hours display will flash.
2. Adjust and step through each selection as needed.
3. Press and hold the REC/SETUP and UNITS buttons simultaneously to exit the Setup mode. The order of selection with the flashing (icon) is:

Hour (0 to 23) **12**:13:14 (Time)

Minute (0 to 59) 12:**13**:14 (Time)

Second (1 to 59) 12:13:**14** (Time)

Sample Rate (00 to 99 seconds) **02** (Sampling)

Month (1 to 12) 1 **03** 10 (Day)

Day (1 to 31) 1 03 **10** (Day)

Day of the week (1 to 7) 1 03 10 (Day) (Sunday = 1)

Year (00 to 99) 20**13** (Year)

OVERVIEW:

The HD450 measures illuminance in Lux and Foot candles (Fc). The HD450 is a Datalogger and includes a PC interface and Windows compatible software for downloading data. Up to 16,000 readings can be

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stored on the meter for download to a pc and 99 readings can be stored and viewed directly on the meter's LCD display.

SUGGESTED APPLICATIONS:

- Comparing how much light is needed for a task against actual light to determine light waste
- Using a meter to control shading devices

RELEVANT TOPICS:

Post-Occupancy Studies, Daylighting Studies, Lighting, Electric Lighting,