

# TRACEABLE<sup>®</sup> DUAL-RANGE LIGHT METER INSTRUCTIONS

## SPECIFICATIONS

### Ranges--

Lux: 0 to 1999  
2000 to 19,990  
20,000 to 50,000  
Foot Candles: 0 to 199.9  
200 to 1999  
2000 to 5000

### Resolution--

Lux: 1 (0 to 1999)  
10 (2000 to 19,990)  
100 (20,000 to 50,000)  
Foot Candles: 0.1 (0 to 199.9)  
1 (200 to 1999)  
10 (2000 to 5000)

### Accuracy--

±5% full scale plus 2 digits

## OPERATION

1. Choose LUX or Foot Candles and Slow or Fast Response by sliding the LUX/FC switch and RESPONSE TIME switch to the desired range and response time.

**“Fast” (black letters)-- Lux range/Fast response.**

**“Slow” (black letters)-- Lux range/Slow response.**

**“Fast” (blue letters)-- Foot Candles range/Fast response.**

**“Slow” (blue letters)-- Foot Candles range/Slow response.**

2. Turn the meter on by sliding the POWER OFF/RANGE switch from the OFF position to the desired range.

To ensure the most accurate reading, make certain that the meter is set to the correct range:

If the light source is less than 2000 Lux or 200 Fc, slide the POWER OFF/RANGE switch to the 0-1999 Lux/ 0-199.9 Fc position.

If the light source is more than 2000 Lux or 200 Fc, but less than 20,000 Lux or 2000 Fc, slide the switch to the 2000-19990 Lux/200-1999 Fc position.

If the light source is over 20,000 Lux or 2000 Fc, slide the switch to the 20,000-50,000 Lux/2000-5000 Fc position.

3. Place the light sensor directly under the light source to be measured. Hold for at least 0.4 seconds. The meter will measure the light and display the value.
4. To hold a measurement on the display, slide the DATA HOLD switch to the right while a measurement is being taken. To cancel the data hold feature, simply slide the DATA HOLD switch to the left.
5. Once measurements are completed, slide the POWER OFF/RANGE switch to the “OFF” position to preserve battery life.

NOTE: This light meter is calibrated using a tungsten light source. If measuring another type of light source, the reading displayed on the meter will have to be corrected using the following factors:

Mercury - (reading x 1.05)

Fluorescent - (reading x 0.91)

Daylight - (reading x 0.95)

## BATTERY REPLACEMENT

“LO BAT” appearing on the display, indicates the battery is low and needs to be replaced. To replace the battery, slide the battery cover located on the back of the unit away from the unit. Remove the old battery and replace it with a new 9-Volt alkaline battery. Use an alkaline battery, NOT a regular or heavy duty battery. Properly connect the battery. Replace the battery cover. Incorrectly installed batteries may damage electronics.

## ALL OPERATIONAL DIFFICULTIES

If this unit does not function properly for any reason, replace the batteries with new high-quality batteries (see “Battery Replacement” section). Low battery power can occasionally cause any number of “apparent” operational difficulties. Replacing the batteries with new fresh batteries will solve most difficulties.