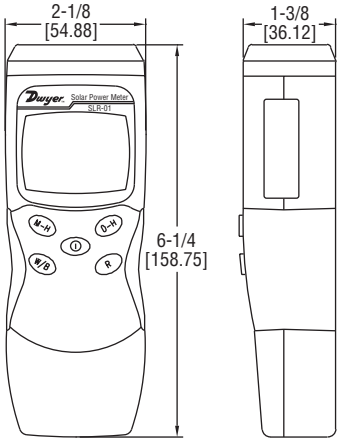
Model SLR-01 Handheld Solar Power Meter

Specifications - Installation and Operating Instructions



Model SLR-01 Handheld Solar Power Meter measures the solar energy to determine the appropriate position or location for solar panels. It can be used to test the performance of solar receivers and solar window treatments. Using the end-mount light sensor, the meter is able to read and display in units of W/m² and BTU/(ft²*h). The large numbers and high contrast of the LCD make it easy to read the measurement, even in bright areas. Applications include solar farms, office buildings that utilize energy harvesting sensors, and telemetry systems.

PRODUCT OVERVIEW

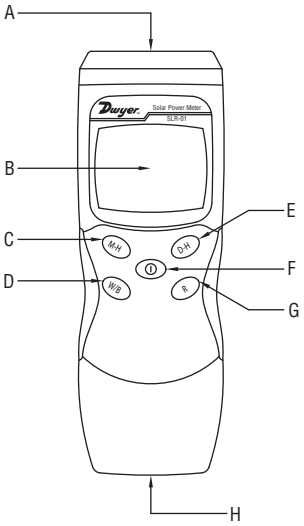


Figure 1

A. Solar Light Sensor
B. LCD Screen
C. Max/Min Button
D. Unit Switch Button
E. Data Hold Button
F. Power Button
G. Auto Range Button
H. Battery Cover

SPECIFICATIONS:
Range: 0 to 1999 W/m²; 0 to 634 BTU/(ft²*h).
Accuracy: ±10 W/m²; ±3 BTU/(ft²*h) or ±5%, whichever is greater; Additional temperature induced error above 77°F (25°C) ±0.38 W/m², ±0.12 BTU/(ft²*h) per °C.
Display: 3-1/2 digit LCD.
Resolution: 0.1 W/m²; 0.1 BTU/(ft²*h).
Temperature Limits:
Operating: 41 to 104°F (5 to 40°C);
Storage: 14 to 140°F (-10 to 60°C).
Power Requirements: 9 V carbon zinc battery, included, user replaceable.
Battery Life: Approx. 100 hr.
Weight: 20 oz (567 g).
Agency Approvals: CE, RoHS.

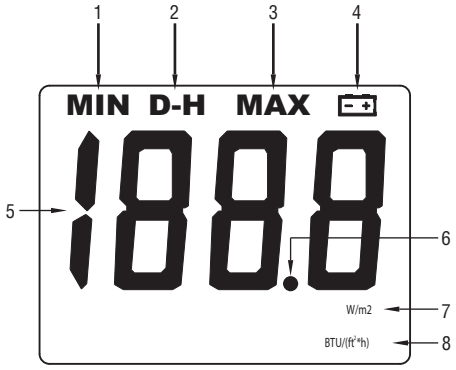


Figure 2

1. Minimum Value
2. Data Hold
3. Maximum Value
4. Low Battery Indicator
5. Numeral Screen
6. Decimal Point
7. W/m²
8. BTU/(ft²*h)

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46360, U.S.A.
Phone: 219/879-8000
Fax: 219/872-9057
www.dwyer-inst.com
e-mail: info@dwyermail.com

OPERATION

1. Press the power button to turn the power on.
2. Place the light sensor at the spot where the meter can test the source of light. After the reading becomes stable, the result will then be displayed on the LCD.
3. After testing, press the power button again to turn the power off.

Note: When the meter is not in use, do not leave in direct sunlight to prevent damage to the sensor. If the meter will not be in use for an extended period of time, remove the battery before storing.

Changing Unit

To change the unit, press the Unit Switch button to toggle between the units.

Data Hold

To keep the reading value on the LCD permanently after it has been recorded, press the Data Hold button. The locked screen can be released by pressing the Data Hold button again.

Maximum/Minimum

To view the maximum or minimum recorded values, press the Max/Min button. The maximum value will be shown on the first press of the button and the minimum value will be shown on the second press. Press and hold the button to return to recording mode.

Auto Ranging

To change the placement of the decimal point, press the Auto Range button. This will cause the meter to change the decimal point position based on the levels of light it is reading.

Note: In the case of the meter being overloaded and displaying “OL” on the LCD, press the Auto Range button and the acquired value will be shown on the display.

BATTERY REPLACEMENT

When the battery symbol appears on the LCD, the battery needs to be replaced. To change the battery, remove the cover to the battery compartment and remove the battery currently in the instrument. Place the new battery in and replace the cover.

MAINTENANCE/REPAIR

Upon final installation of the Model SLR-01, no routine maintenance is required. The Model SLR-01 is not field serviceable and should be returned if repair is needed. Field repair should not be attempted and may void warranty.

WARRANTY/RETURN

Refer to “Terms and Conditions of Sale” in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.

Printed in U.S.A. 4/14

FR# R7-444163-00 Rev. 2

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46360, U.S.A.
Phone: 219/879-8000
Fax: 219/872-9057
www.dwyer-inst.com
e-mail: info@dwyermail.com