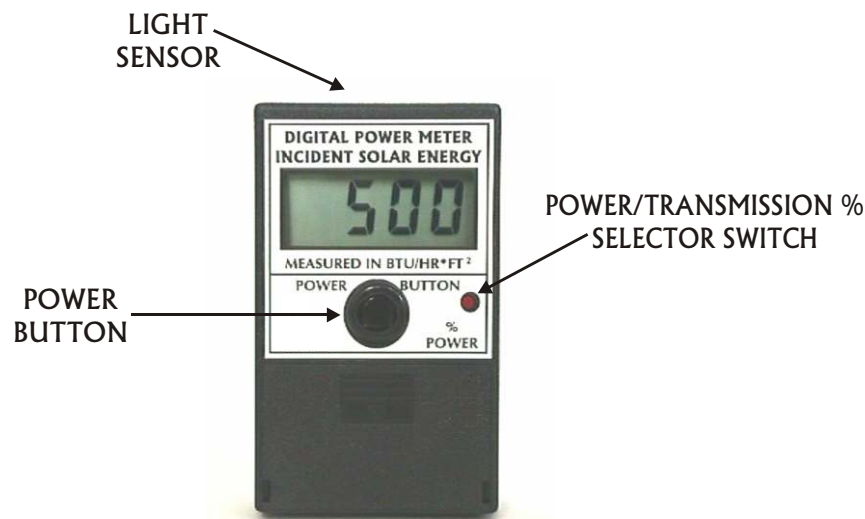


RELATED PRODUCTS FROM EDTM, INC.

MODEL# SP2065 SOLAR POWER & TRANSMISSION METER



The SP2065 Solar Power & Transmission meter offers NEW convenient features never offered before. The SP2065 is capable of taking **SOLAR TRANSMISSION** measurements as well as power measurements. You no longer have to calculate the transmission percentages as with the SP1065.

FEATURES

- Automatic transmission measurements
- Real-time readings continually updated on the display
- Select either power or transmission
- Low E type detection
- End-mount light sensor
- Portable

APPLICATIONS

- Convincing sales tool
- Field service assistant
- Identify types of Low E coatings in the field or at the factory
- Illustrate your products solar performance and show effectiveness in reducing energy costs
- Identify high performance windows

SP1065 WARRANTY

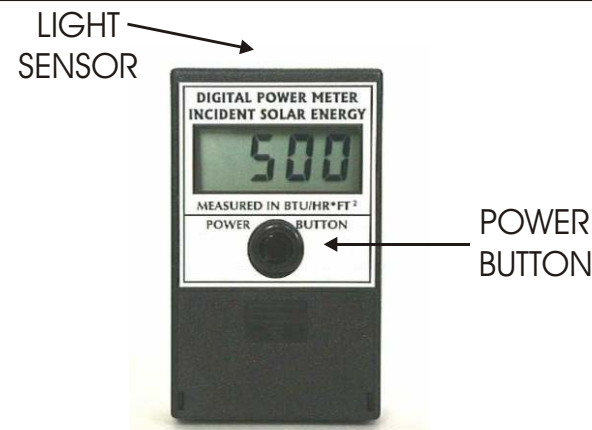
The manufacturer warrants all models of the SP1065 to be free from defects in material and workmanship under normal use and service as specified within the operator's manual. The manufacturer shall repair or replace the unit within ninety (90) days from the original date of shipment after the unit is returned to the manufacturers factory, prepaid by the user, and the unit is disclosed to the manufacturers satisfaction, to be thus defective. This warranty shall not apply to any unit that has been repaired or altered other than by the manufacturer. The aforementioned provisions do not extend the original warranty period of the unit which has been repaired or replaced by the manufacturer. Batteries are not covered by warranty.

EDTM, Inc. assumes no liability for the consequential damages of any kind through the use or misuse of the SP1065 product by the purchaser or others. No other obligations or liabilities are expressed or implied. Any damage or liability claim will be limited to an amount equal to the sale price of the SP1065.

THE **DIGITAL POWER METER
INCIDENT SOLAR ENERGY**
MODEL #SP1065

GENERAL DESCRIPTION:

The digital "SOLAR POWER METER" measures the power per unit area of incident solar radiation reaching the meter's sensing area. The meter uses a state of the art light sensor coupled with microprocessor control to achieve an EASY TO READ hand held meter. The device may be used to measure the solar characteristics of glass, film or other transparent materials.



FEATURES:

- DIGITAL TECHNOLOGY
- EXCELLENT RESOLUTION
- MICROPROCESSOR CONTROL
- NO ADJUSTMENTS OR CALIBRATIONS NECESSARY
- END-MOUNTED SENSOR
- PUSH-ON/PUSH-OFF POWER SWITCH

KEEP THE COMPETITIVE EDGE WITH PRODUCTS FROM EDTM, INC.

*ELECTRONIC DESIGN TO MARKET INC.
745 CAPITAL COMMONS DRIVE
TOLEDO, OHIO 43615 USA
PH: 419-861-1030, FAX: 419-861-1031*

*VIEW OUR ENTIRE PRODUCT LINE ON OUR WEBSITE: WWW.EDTM.COM
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*LOW-E DETECTORS, 4 POINT SHEET RESISTANCE METERS,
GLASS AND AIR SPACE METERS,
SOLAR, VISIBLE, & UV METERS,
HEAT LAMPS & SALES KIT ITEMS*

METHOD OF OPERATION -- SP1065

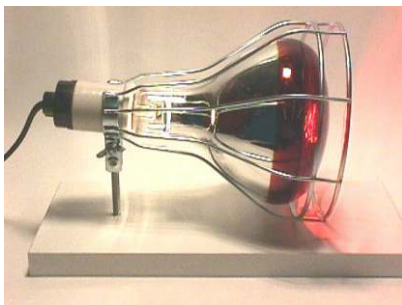
The SP1065 can be used to measure solar power in many applications. Repeated readings can be taken in a given environment to show changes over time. The meter can also be used to compare the solar performance of various transparent mediums. Solar transmission measurements can be obtained by following the procedure below.

To set up a **TABLETOP DEMONSTRATION**, place a light source facing the SP1065. Position the SP1065 flat on the table with the sensor facing the light source directly. If necessary, place the SP1065 on top of its box to position the meter in the center of the light beam. To obtain the most accurate results, DO NOT move the light source or the SP1065 during the readings.

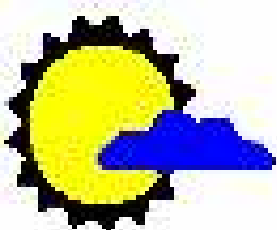
For **DIRECT SUN** measurements, position the SP1065 with the light sensor facing the sun directly (when possible). By placing your glass or film samples in front of the sensor one at a time, you can monitor the reduction in solar energy transmitted through each sample. Please note that outdoor conditions are ever-changing. Clouds and environmental conditions can change the incident solar energy quickly.

- 1) TURN ON THE SP1065 BY PUSHING THE POWER BUTTON
- 2) POINT THE LIGHT SENSOR (top end of meter) AT THE LIGHT SOURCE
- 3) RECORD THE POWER READING FROM THE DISPLAY
- 4) PLACE TRANSPARENT SAMPLE BETWEEN THE LIGHT SOURCE AND THE SP1065
- 5) RECORD THE POWER READING FROM THE DISPLAY
- 6) REMOVE THE SAMPLE AND CONFIRM YOUR ORIGINAL READING FROM STEP 3
- 7) THE TRANSMISSION PERCENT IS (STEP 5 / STEP 3) * 100 (I.E. 150/200 = 75%)
- 8) PUSH THE POWER BUTTON AGAIN TO TURN THE METER OFF

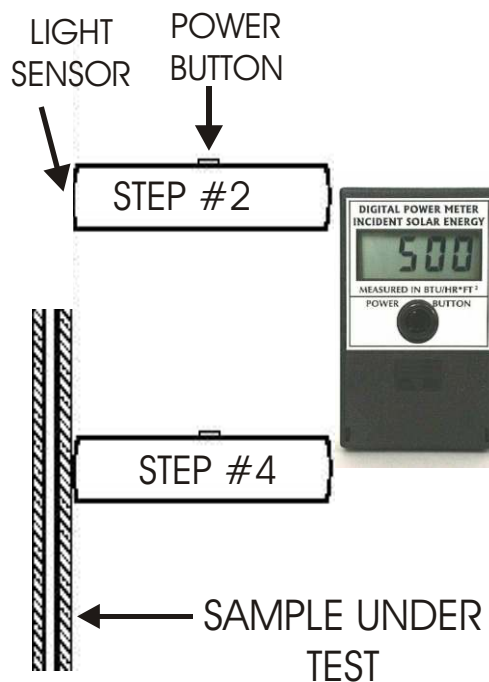
INFRARED HEAT LAMP EDTM MODEL# HL1040



OR



LIGHT SOURCE



HELPFUL OPERATING TIPS

1. If taking measurements near a heat lamp, do not place the meter too close to the light source. If the end of the meter begins to feel hot to the touch, it is probably too close to the light source. Extended periods of heat exposure can cause deformation of the filters, resulting in a change in the accuracy of the meter.
2. When taking readings to measure transmission percentage, it is important that the meter is held in the exact same position for both readings taken (when possible). Any change in angle or proximity to your light source can adversely affect the accuracy of your measurements. FOR BEST RESULTS, place the meter on its box or other stationary item. To read transmission readings, slide the glass sample in front of the meter, without moving the position of the meter. This will guarantee the most accurate readings possible.
3. When performing transmission percentage readings, it is advised to take multiple readings to reduce the amount of error that occurs. Be aware that a changing light source (sun with moving clouds) will affect your transmission readings.
4. The light sensor is located at the top end of the enclosure. For the greatest accuracy in measurements, this sensor should be directly facing the light source. DO NOT alter the condition of the sensor opening by touching or pushing on the filter. Any modifications or altering of the exterior surface of the white filter will affect the calibration of the meter. This area should be kept clean at all times. Compressed air or a lint-free cloth should be used to clean the filter surface if it becomes soiled.
5. When not in use, turn the SP1065 meter off by pushing the power button. This will conserve the life of the battery.
6. Do not attempt to open the enclosure. Opening the enclosure will void the product warranty and affect the calibration of the SP1065 meter.

BATTERY REPLACEMENT

The SP1065 is powered by a 9 volt battery. When the battery voltage is getting too low to operate the meter, the display will begin blinking. Once the display begins blinking you will want to replace the battery soon. To replace the battery, turn off the power meter. Remove the battery cover near the bottom of the meter and replace with a new battery. Alkaline batteries will provide the longest service, but are not required for this product.

CALIBRATION

This instrument has been calibrated to detect the total incident solar power of the sun. The largest incident value of solar power is obtained when the end of the meter faces the sun directly. When the end of the meter does not face the sun, the incident solar power is reduced by the cosine curve of the angle to the sun. Make sure the transparent materials being tested are reasonably clean.

This instrument is factory calibrated to a NIST (NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY) traceable thermopile and should require no field adjustment.