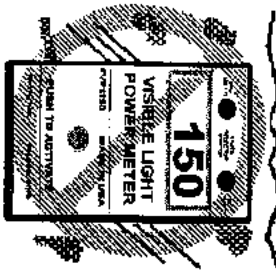
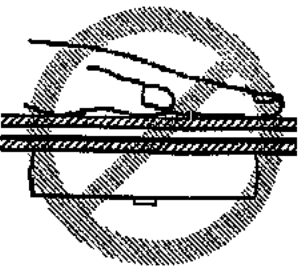


IMPROPER OPERATING CONDITIONS

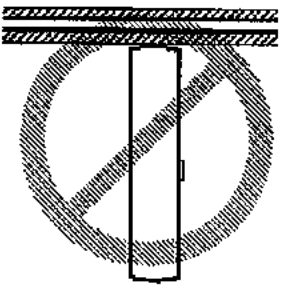


If the window assembly, glass or film area under test is excessively dirty or contaminated, the VISIBLE LIGHT POWER METER may give improper results. The area under test must be RELATIVELY CLEAN. Clean the test area or move the meter to a clean location on the window or film.

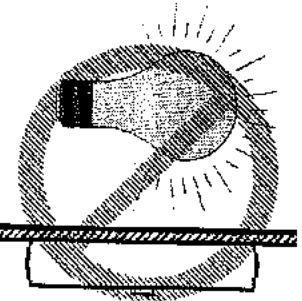
The visible light power meter must be used with the surface opposite the "Activate" button against the window. Using the small end surface of the unit or tilting the unit away from the surface will give improper results.



Placing your hand or any object that blocks light from the white sensing area on the back of the meter will give improper results. Remove object or move the meter.



IMPORTANT:
The VISIBLE LIGHT POWER METER has been optimized for TOTAL VISIBLE SOLAR LIGHT from the sun. The unit may be used with other light sources, however it must be realized the absolute value readings may vary from actual sun (solar) conditions. "Natural light" fluorescent tubes and bulbs are commonly available.



- NOTE: Solar readings are dependent upon
- the angle of the meter to the SUN
 - mixture of ultraviolet, visible and infrared light
 - purity and consistency of the material under test

THE DIGITAL VISIBLE LIGHT POWER METER

MODEL #VP1150

GENERAL DESCRIPTION:

The "VISIBLE LIGHT POWER METER" measures the incident VISIBLE spectrum radiation from the sun. The meter uses a state of the art light sensor coupled with microprocessor control to achieve an EASY TO READ and USE hand held meter. The device may be used with any transparent medium (i.e. glass or film) to measure the visible light characteristics of the material under test.

USER SELECTABLE
POWER UNITS OF
BTU/HR-FT² OR W/M²



This instrument has been calibrated to detect the total incident visible light from the solar spectrum. The largest incident value of visible power is obtained when the back of the meter faces the sun directly. When the meter does not face the sun directly, the incident visible light power is reduced by the cosine curve of the angle to the sun. Make sure that the material being tested is reasonably clear.

This instrument is factory calibrated to a NIST (NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY) traceable broad band silicon detector and requires no field adjustment. The calibration data is based upon ASTM G159-98 for Solar Spectral Irradiance at Air Mass 1.5).

EDITM INC.

ELECTRONIC DESIGN TO MARKET, INC.
5333 Secor Road, Suite #6
Toledo, Ohio 43623 USA
PHONE: (419) 480-1098 FAX: (419) 480-1099

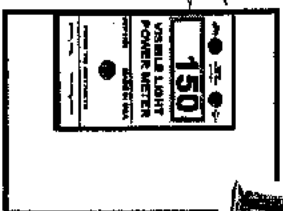
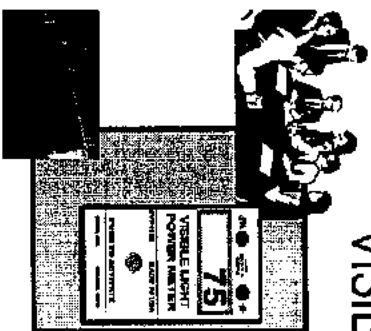
KEEP THE COMPETITIVE EDGE

CALL US FOR INFORMATION ON OUR OTHER
GLASS PRODUCT TEST EQUIPMENT.

LOW-E DETECTORS, 4 POINT RESISTIVITY METER,
GLASS AND AIR SPACE MEASUREMENT METERS

APPLICATIONS

THE HUMAN FACTOR "VISIBILITY/GLARE"



TINTED FILM MOUNTED

ON GLASS OR

TINTED/REFLECTIVE GLASS

VALUE 1 = 75 BTU/HR-FT²

OR 23.8 W/M²

PLAIN

GLASS

VALUE 2 = 150 BTU/HR-FT²

OR 47.6 W/M²

CALCULATE VISIBLE LIGHT TRANSMISSION PERCENTAGE:

VALUE 1 / VALUE 2 = 50% TRANSMISSION

HELPFUL OPERATING HINTS

1. At a minimum, replace the battery in this meter annually.
2. To operate the meter, push the button and hold it until you have obtained your reading. Do NOT bounce the switch or press it repeatedly as invalid results may appear on the display. Pause for one second between readings, before pushing the power button for additional readings.
3. Do not open the enclosure or adjust the screws holding the enclosure together. Opening the enclosure or adjusting the screws WILL affect the calibration of your Solar Incidence meter.
4. To replace the battery, simply remove the battery cover from the front of the enclosure. Remove the old battery and install a new battery into the clip and insert back into the battery compartment.
5. Do not alter the white filter material located on the back of the meter. Attempt to keep this location clean and free of any debris. Use compressed air to clean the filter. Do NOT push on the filter, as this may alter your calibration.

CONVERSIONS : 1 BTU/HR-FT² = 3.1503 W/M²

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APPLICATIONS

IN THE FIELD OR FACTORY:
IDENTIFY TYPES OF GLASS

OR

INVISIBLE COATINGS (i.e. VARIOUS TYPES OF LOW-E ...)

STEP 1: Identify LOW-E coating location by use of EDIM's AE1600 LOW-E detector.

STEP 2: Use the VISIBLE LIGHT POWER METER to take readings on coated and uncoated glass.

EXAMPLE OF I.G. TRANSMISSION CHARACTERISTICS OF VISIBLE LIGHT:
CLEAR GLASS IG UNIT: ~81% VISIBLE LIGHT TRANSMISSION
SINGLE COATING OF LOW-E: ~77% VISIBLE LIGHT TRANSMISSION
MULTIPLE COATINGS: ~71% VISIBLE LIGHT TRANSMISSION

The prior analysis may be useful when working with sunrooms, curtainwalls and large architectural buildings.

Glaziers who are attempting to perform replacements, can implement the Visible Light Power meter to get a better understanding of the glass they are replacing. Gaining a perspective on the visible light performance will help the glazier to install a comparable product, whether it be film, tinted glass, reflective glass, etc. . . The VP1150 can help the glazier to match the replacement glass to the existing glass.

WARRANTY

The manufacturer warrants all models of the VP1150 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 manufacturer's factory, prepaid by the user, and the unit is disclosed to the manufacturer's 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 VP1150 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 VP1150.