



Glass, Window & Film Test Equipment

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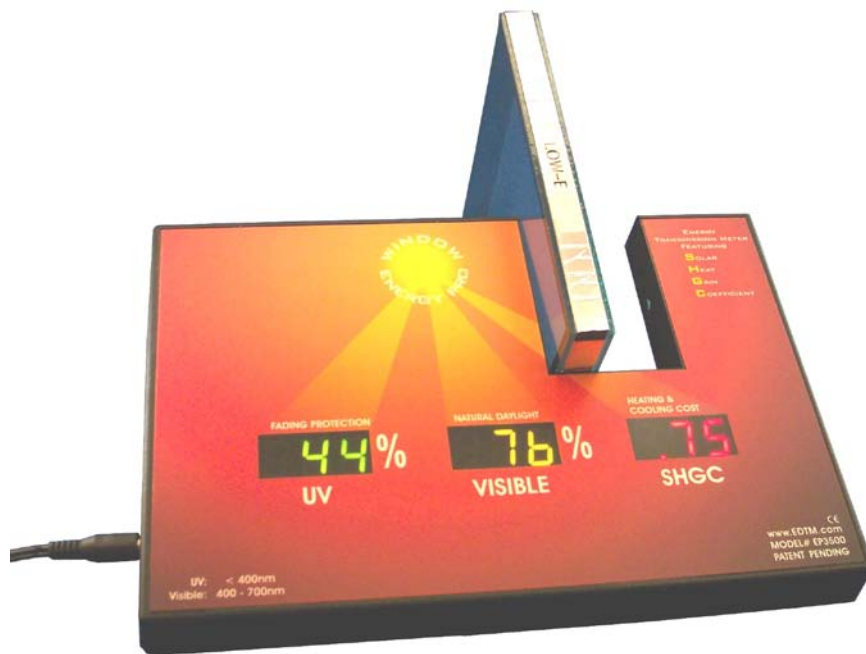
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## **WINDOW ENERGY PRO:**

**ENERGY TRANSMISSION METER  
FEATURING SHGC VALUE (SOLAR HEAT GAIN COEFFICIENT)**

**MODEL# EP3500**



The Window Energy Pro is the first product of its kind that is able to estimate Solar Heat Gain Coefficient (SHGC) values for transparent Low E and clear windows. The instrument also adds the benefit of demonstrating UV and Visible Light transmission values. The light sources and sensors are all contained inside the instrument. There are no adjustments required to operate the EP3500. Simply plug in the power cord and slide the glass sample into the opening and watch the resulting performance data appear on the display. The bright, multi-colored LED displays make the results easy to see. A convenient kickstand on the back of the enclosure allows the instrument to stand up so the resulting values can be easily displayed to a group of people---perfect for showrooms, trade shows, and meetings with groups of people. Perform LIVE demonstrations of the performance of your Energy Efficient window products. Simple, fast and convincing; this instrument will place your sales demonstrations a level above the rest! Never before has a demonstration tool been capable of showing such important performance values! The SHGC calibration on this instrument is not intended for use with tinted or reflective (mirrored) surfaces.

## **FEATURES:**

- SHGC values demonstrated
- Three energy performance values displayed simultaneously (SHGC/UV/Visible)
- Bright multi-colored LED displays for easy viewing from a distance
- Single, double or triple pane testing easily accomplished
- Test any sample width up to 2" thick
- Sash/spacer width up to 1.375"
- No additional light sources needed
- Auto-calibration at start-up: NO manual adjustments required
- Powered by a 9-volt DC power pack (supplied)
- 10' extension cord available as an option (#PR3420)
- Kickstand to allow instrument to stand up for easy viewing
- Continuous measurements
- Professional image, yet simple operation
- Small, portable convenient size
- Protective, custom carrying case

## **BASIC OPERATION**

Place the EP3500 on a flat, stationary surface where you intend to conduct your measurements. Flip open the kickstand on the back side of the enclosure and allow the instrument to rest firmly on the kickstand. Allow enough room for the glass samples to lean into the opening. There is no power switch for the Window Energy Pro. The unit is powered by a 9-volt DC power supply (1.3 Amp rating). To turn the instrument on, simply plug the power supply into the wall and the other end of the cord into the EP3500. The power connector is located on the left end of the instrument. After powering up the EP3500, allow the system to self-calibrate (designated by two (2) dashes in the display areas). After each of the displays show 100%, you can place any sample into the opening to measure the performance characteristics. You can hold the glass sample in place with your hand. You can also lean the glass sample into the opening, allowing the glass to rest against the opening in the EP3500. This will facilitate a hands-free demonstration. PLEASE NOTE: the instrument is designed to test small window samples. Do not rest large, heavy windows against the opening of the instrument, as this could permanently damage the kickstand.

## **HELPFUL REMINDERS**

Here are a few helpful reminders for conducting transmission measurements. Always hold the glass perpendicular to the opening. Do not tilt the glass at angles. For the most accurate transmission measurements, the glass should be held perpendicular to the sensors. It is also recommended that the samples being tested are positioned in the center of the opening. Be aware that fingerprints on the glass can slightly affect the transmission values.

When you slide the glass into position, move the glass all the way into the opening, resting against the stop location. Pay attention to the spacer/sash of your window. Make sure the glass is slid far enough into the opening so the spacer/sash is not blocking one of the sensors.

The instrument will continually monitor its calibration during measurements. If the instrument detects any problems with the calibration, it will reset itself in between measurements. If you mistakenly turn the instrument on with a piece of glass already in position, the displays will calibrate to read 100% with the glass in place. Simply remove the glass sample and wait a few moments. The displays will identify the fault condition by registering a high reading ("HP"). The instrument will re-calibrate itself (indicated by two (2) dashes in the display areas) shortly after the glass is removed. After the displays have returned to 100%, you may continue with your measurements.

If the frame of your window sample is blocking one of the sensors from receiving a signal, that display will register a "0" value. Make sure the frame of your window sample is not blocking any of the three sensor locations. If you forget to remove the window sample when the instrument is turned on AND the frame of the window sample is blocking any of the sensors, the displays will lock in a chasing segments routine. Simply remove the window sample from the opening and the chasing segments routine should stop after only a few seconds.

### **SPECTRUM SPECIFICATIONS**

In addition to the SHGC value of your window, the EP3500 displays energy transmission values in two spectrums. The light sources used for each spectrum have a peak response at the following wavelengths:

UV:	365nm
VISIBLE:	Full weighted spectrum: 400 – 700 nm

### **WARRANTY**

The manufacturer warrants all models of the EP3500 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 twelve (12) months 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 EP3500 product by the purchaser or others. No other obligations or liabilities are expressed or implied. All damage or liability claims will be limited to an amount equal to the sale price of the EP3500, as established by EDTM, Inc.