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## **SPECTRUM DETECTIVE:** **ENERGY TRANSMISSION METER** **MODEL# SD2400**



Expanding on our success with sales demonstration tools, our new “Spectrum Detective” product is able to simultaneously display UV, Visible and Infrared transmission values. Being a self-contained system, there are no additional light sources or power chords necessary, and no adjustments to make. Simply slide the glass sample into the opening and watch the resulting performance data appear on the display. Perform LIVE demonstrations of the performance of your Energy Efficient window products. Simple, fast and convincing; this instrument will take sales demonstrations to a whole new level!

### **FEATURES:**

- Three performance values displayed simultaneously
- Single, double or triple pane testing easily accomplished
- Test any sample width up to 2” thick
- Sash/spacer width up to 1.25”
- No additional light sources needed
- Auto-calibration at start-up: NO manual adjustments required
- Battery operated: no power chord required
- Automatic power-off feature for extended battery life
- Replace Battery Indicator
- Continuous measurements
- Professional Image
- Simple operation
- Convenient push-on/push-off power switch
- Small, portable convenient size
- Protective, custom carrying case

## **BASIC OPERATION**

Place the SD2400 on a flat, stationary surface. Turn the instrument on and wait for the system to self-calibrate. After each of the displays show 100%, you can place any sample into the opening to measure the performance characteristics. 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 (as shown in the picture above). 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 instrument will re-calibrate itself shortly after the glass is removed. After the displays have returned to 100% after the removal of the glass, you may continue with your measurements.

## **SPECTRUM SPECIFICATIONS**

The SD2400 displays energy transmission values in three 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 |
| INFRARED: | 950nm                                |

## **BATTERY REPLACEMENT**

The SD2400 is powered by a 9 volt alkaline battery. When the battery voltage is getting too low to operate the meter, the low battery indicator will turn on. The instrument can still be used at this point, however it is recommended that the battery be replaced soon. Alkaline batteries are recommended for this product.

## **AUTO-POWER-OFF**

The SD2400 instrument is equipped with an automatic power-off feature to extend the life of your battery. The instrument will automatically shut off after approximately 5 minutes.

## **WARRANTY**

The manufacturer warrants all models of the SD2400 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 SD2400 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 SD2400, as established by EDTM, Inc.