

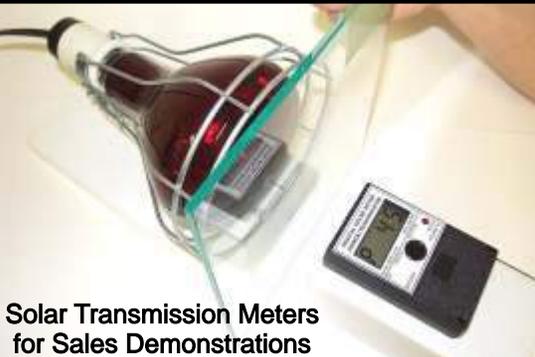
KEEP THE COMPETITIVE EDGE WITH PRODUCTS FROM EDTM, INC.



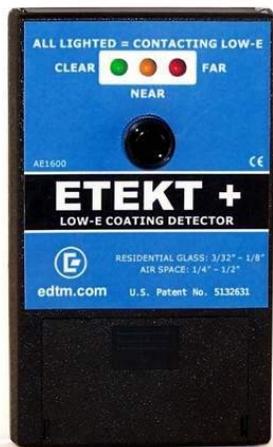
Tin Side Detection



Digital Glass & Air Space Thickness



Solar Transmission Meters for Sales Demonstrations



Low E Coating Detectors

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VIEW ALL OF OUR PRODUCTS ONLINE AT
WWW.EDTM.COM



RD1660 WARRANTY

The manufacturer warrants all models of the RD1660 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 RD1660 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 RD1660.

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ShowerGuard®

COATING DETECTOR

MODEL #RD1660

US Patent# 6,683,695

GENERAL DESCRIPTION:

The RD1660 is capable of identifying the presence and location of ShowerGuard coatings. The meter uses state of the art technology coupled with microprocessor control to achieve an EASY-TO-USE hand held meter. The tool is powered by a 9 volt alkaline battery (included).

The meter will be testing only the surface of glass you are contacting with the meter. The meter will make no attempt to test the back side of the piece of glass you are inspecting. If you are unsure if the coating is on the back side of the glass, you will need to flip the glass over and test the opposite side.

The glass being tested should be clean to assure the best results. Move to the cleanest area on the piece of glass, or wipe the glass surface clean prior to taking a measurement. The viewing window on the back side of the meter should also be kept clean. If the viewing window is covered with dirt, dust, or fingerprints, use compressed air to remove the contaminants. It is also acceptable to use a non-scratch cloth to wipe the viewing window clean.

Coating location indicators

Low battery indicator



Power Button

FEATURES:

- EASY TO READ INDICATORS
- MICROPROCESSOR CONTROL
- MEASUREMENT CONTINUALLY UPDATES
- NO ADJUSTMENTS OR CALIBRATIONS NECESSARY
- REAR-MOUNTED SENSOR
- MOMENTARY POWER SWITCH
- SMALL, PORTABLE CONVENIENT SIZE

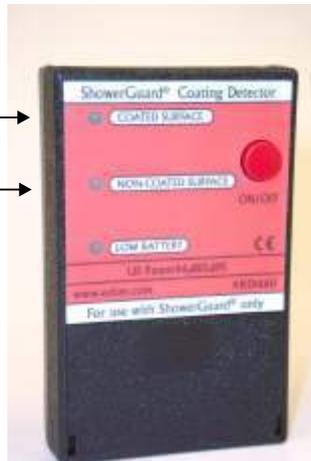


Manufactured by EDTM, Inc. in the USA
See back cover for additional products

METHOD OF OPERATION -- RD1660

The RD1660 uses an optical principle to detect the presence of the ShowerGuard coatings. To take a reading simply place the meter FLAT on the glass and push/hold the momentary power button. The meter will blink all three indicators quickly and then register the correct reading by showing one of three conditions:

- COATED SURFACE: The meter is in contact with the ShowerGuard coating
- NON-COATED SURFACE: The glass surface being touched by the meter is CLEAR (=NO ShowerGuard coating). It is assumed the opposite side of the glass contains the ShowerGuard coating. You should test the opposite side of the glass to confirm it contains the coating.
- NO INDICATORS LIT: The meter is not pressed against the glass correctly or there is no glass present.



SHOWERGUARD INDICATOR →

NON-COATED (CLEAR) INDICATOR →

The instrument and glass should be held stationary during the reading. Since the RD1660 meter uses an optical property to conduct measurements, dirty glass can affect the accuracy of the meter. Therefore it is important to test an area of the glass that is the cleanest. You may want to wipe the glass area clean before taking a measurement.

BEHIND THE GLASS

When testing loose pieces of glass, it is best to hold the glass upright in free air. Holding the glass in free air is the optimal testing condition. To avoid possible errors in measurement, do not place the glass on any surface. Placing the glass on tabletops or other surfaces that have a glossy, reflective, or bright color finish may affect the accuracy of the readings. If you must test the glass on a tabletop surface, make sure the surface is not glossy, reflective or brightly colored. To improve accuracies on tabletop measurements, place a dark colored fabric on the tabletop surface first, then place the glass on the fabric. It is also possible to take measurements of glass on top of other pieces of glass. This is helpful if you are measuring stacks/pallets of glass.

rd1660/1660man101202

MAINTENANCE & OPERATING TIPS

1. **CLEANING:** It may be necessary to clean the RD1660 meter occasionally. Since the meter is an optical product, the viewing window on the back side of the enclosure may need cleaned to maintain the meters reliability. Use compressed air to blow debris and dirt from the lense area. If the dirt cannot be removed with compressed air, use a soft lint-free cloth to lightly remove the dirt. Only apply light pressure to the lense.
2. **POSSIBLE ERRORS:** It is possible that specific reflective coatings can cause errors to occur in your measurements. Placing the RD1660 in direct contact with a low e coating or reflective coating may cause the meter to incorrectly show the surface contains a ShowerGuard coating. If you are unsure if your window contains a low e coating, use a low e coating detector (EDTM Model# AE1601 or GC3000) to identify its presence and location.
3. **APPLICATIONS:** The RD1660 can measure single pieces of glass, glass installed in assemblies, laminated glass, tempered glass, as well as many other arrangements. However the meter will be testing the first surface of glass ONLY.
4. **MEASUREMENT CONFIRMATION:** It is recommended to take multiple readings at different locations on each piece of glass to confirm an accurate measurement. This will reduce the number of mistakes that may occur from dirty glass or other possible errors.
5. **ROCKING ENCLOSURES/BOWING GLASS:** Be certain the meter is placed flatly against the glass. Lifting the meter away from the glass surface will affect the results of your test. Be aware that it is possible for glass to bend or bow. Therefore confirm the enclosure does not rock on the glass. The enclosure should be sitting flat at all times. If the enclosure is rocking, try moving to another location on the glass.
6. **SECURITY:** DO NOT open the enclosure. Opening the enclosure will void the product warranty and affect the calibration of the RD1660 meter.
7. **CALIBRATION:** This meter is specially calibrated to measure ShowerGuard coatings only. DO NOT attempt to measure other types of coatings, as the calibration may not correctly identify other coatings.
8. **MISUSE:** Do not apply excessive amounts of force to the power button. Extreme force may damage the switch or cause the entire meter to flex. This will affect the calibration of the meter and may cause errors to occur.
9. **LIGHTING CONDITIONS:** The RD1660 is designed to operate in most all normal lighting conditions. The meter can be used indoors or outdoors, as well as in direct sunlight. As this meter uses optical properties to conduct its measurements, extremely powerful lamps behind the meter may affect the performance. If this condition occurs, move the glass to another location for testing, or block the light that is shining behind the meter.

BATTERY REPLACEMENT

The RD1660 is powered by a 9 volt alkaline battery. When the battery voltage is getting too low to operate the meter, the low battery indicator (RED LED) will light. It is OK to complete the set of measurements you are conducting, however it is recommended that the battery be replaced immediately thereafter. To replace the battery, remove the battery cover near the bottom of the meter and replace with a new battery. Alkaline batteries are recommended to power this meter.