The AGC Glass Europe LUXCLEAR Coating Detector allows the user to easily identify the coated side of ANNEALED AGC LUXCLEAR glass. Please note, the meter can NOT test TEMPERED glass. Simply place the meter against the glass surface and push the button. The results will instantly be displayed on the LCD screen. The instrument includes a MENU button that allows the user to operate the meter in SINGLE TEST MODE or FREE RUNNING MODE (continual measurements). Repeatedly pushing the MENU button will scroll through all of the available options of the meter. When you find the option you desire, simply push the Power/Select button and your selection is made.

FEATURES
- Identify the coated side of the glass
- SINGLE TEST mode or FREE RUN continual measurement operating mode
- Able to recalibrate the instrument in the field
- Backlit LCD display for testing in any light condition
- User-friendly LCD display operation with step-by-step directions on how to use
- “OPTO-CLEAN” error protection against dirty glass and dirty lens on the meter
- Powered by standard 9-volt alkaline battery (included)
- Automatic power-down feature to extend battery life
- Tactile membrane switches on the front panel
OPERATION

To begin, make sure the glass you are testing is clean. Dirty glass or dust and dirt on the surface of the glass can affect the results of your test. Also make sure the lens on the back side of the meter is clean. To turn the instrument on, press the momentary power switch on the front of the meter. The display will direct you to place the meter on the glass you want to test. Place the meter FLAT against the glass. Your test results will appear on the LCD screen. Here are the various operating modes and features you can select with the MENU button:

“SINGLE TEST” MODE
Each push of the button will result in one test being done on the surface of glass you are touching. The meter will not test the opposite side of the glass, rather only the side you are in contact with. The display will register a measurement of “SURFACE IS COATED” or “SURFACE IS UNCOATED”. Hold the instrument stationary while conducting the measurement. Single test mode is the most battery-efficient operating mode and the recommended mode of operation.

“FREE RUN” MODE
In this mode, the meter will continually take measurements. There is no need to continually push the power button when you want to take a measurement, as the meter will be continually doing so. Measurements will be updated nearly every second. It should be noted that this operating mode will tend to shorten the life of the battery, as the electronics are powered for a much longer period of time, as opposed to single test mode.

CALIBRATE
If the coating you are testing has changed in chemistry, or if the warning message on the display has encouraged you to recalibrate, select this option. Before beginning, be sure to clean the back lens of the meter, and find a clean sample of annealed AGC LUXCLEAR coating. IMPORTANT NOTE: YOU MUST USE AN ANNEALED PIECE OF AGC LUXCLEAR GLASS FOR THE CALIBRATION PROCEDURE. Using a tempered piece of glass will cause an incorrect calibration to occur and the meter may not accurately identify the coated side of annealed AGC LUXCLEAR glass. To complete the calibration, follow the instructions on the display to take a measurement on both sides of the annealed AGC LUXCLEAR sample. The meter will indicate if the calibration was successful or not. If the calibration was not successful, the display will show you what error occurred during the calibration process. If an error occurs, check to see that the meter lens is clean, and that your annealed AGC LUXCLEAR sample is valid and clean.

USE PREV. CAL
If you do not like the new calibration that you performed, you can restore the previous calibration that was stored in the instrument.

USE FACTORY
If you want to return the meter to the calibration that was originally shipped in the meter as new from the factory, make this selection.
TEST RESULTS

“SURFACE IS” . . . . . . .
One of the following screens will appear after a successful test:

SURFACE IS COATED: this means surface 1 contains AGC LUXCLEAR coating
SURFACE IS UNCOATED: this means surface 1 does not contain AGC LUXCLEAR coating

Please note, the meter will make NO attempt to identify any coatings on surface #2.

“PLEASE CLEAN BACK LENS”
This message will appear if the meter has determined that the back lens may be dirty. Simply use compressed air to blow off any dirt or dust from the back lens of the meter. This message is the first level of warning that your meter may need to be cleaned.

“MUST CLEAN BACK LENS”
This message is the second level of warning that indicates the meter has a back lens that needs to be cleaned. The validity of your test results could be affected soon. Clean the back lens of the meter.

“MUST CLEAN AND/OR RECAL”
If the meter has been neglected and the back lens has continually been degrading in cleanliness, this message will appear. Once this message appears, the validity of test results would be jeopardized, and the meter will NOT allow test results to be shown. Before any re-calibration is performed, it is pertinent that the back lens of the meter is cleaned first. This may be all that is needed to get the meter performing correctly again. Try cleaning the lens first and then test the meter again. If the same warning message appears, then it is necessary to recalibrate the instrument. Find a clean sample of ANNEALED AGC LUXCLEAR glass and choose RECALIBRATE in the MENU system. Before re-calibrating, make sure the glass sample is valid and clean.

“CLEAN & RE-TEST”
This result screen will show up if the measurement was not in the range anticipated by the meter. This typically happens when the glass is dirty. Clean the glass and test again. If this does not correct the problem, you may want to clean the back lens of the instrument by using compressed air to blow off the lens. If smudges still remain, use a lint-free cloth to wipe the smudges from the lens.

“KEEP METER FLAT ON GLASS DURING TEST”
If you pick up the meter or the instrument is not setting flat against the glass during the test, this error message will occur. The instrument is monitoring the measurement and if it determines that the meter has been pulled away from the surface of glass, it will display this message and ask you to start a new test.

MISCELLANEOUS

POWER
If the user wants to turn the power off manually, you need to press AND HOLD the power button for 2 seconds. After 2 seconds the powering-down screen will appear, and the meter will begin its countdown to shutting off. You must continue to hold the button down during the countdown to complete the powering off sequence. If you let up on the button too early, the instrument will resume operation.

The instrument also has a built-in timer that will automatically power down the product if no button presses occur for approximately 2 minutes. This energy conservation design helps to extend the life of the battery in the instrument in case the user forgets to turn it off. To turn the meter back on, simply push the button.
MAINTENANCE
You will want to occasionally inspect the cleanliness of the viewing window on the back side of the meter. If you see dust or dirt in the window, please use compressed air to blow it off. If you begin receiving a large number of error messages during your testing, this may be a sign that the back window needs cleaned. If there are smudges on the window that do not clean off with compressed air, use a soft lint-free cloth to wipe the lens. Always use compressed air first to remove any particles that may scratch the surface of the lens.

BATTERY REPLACEMENT
The instrument is powered by a 9-volt alkaline battery (supplied). The instrument will notify you when the battery is starting to get low. The meter will continue to operate, as this is just a warning that you will need to replace the battery in the near future. Once the battery has reached a level that is too low, the instrument will lock up the display with a “REPLACE BATTERY” message. To access the battery, remove the battery cover and replace with a new 9-volt alkaline battery. If the unit is going to be stored for more than a month without use, we recommend removing the battery during storage.

USE / MIS-USE
Do not tamper with the enclosure of the instrument. Opening the enclosure WILL affect the calibration of the instrument AND will void the warranty.

Do not apply excessive force to the switch. Doing so could affect the performance of the instrument, especially if excessive force is applied during testing.

The instrument has been calibrated for testing the AGC LUXCLEAR coating on annealed glass ONLY. Testing of materials other than those listed is not warranted to produce the correct test results. If you have a custom application, consult the factory to find out if the product is applicable.

WARRANTY
The manufacturer warrants the electronics included in all models of the LX1725 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 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, enclosures, lenses and front panel interface components are not covered by warranty.

The manufacturer assumes no liability for the consequential damages of any kind through the use or misuse of the LX1725 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 LX1725, as established by the manufacturer.

OTHER PRODUCTS FROM EDTM, INC.

Glass & Air Space Laser Meters + Identify Low E Type (Model# GC3200)
Low E Coating Detectors (Model# AE3600)
Tin Side Detectors (Model# TS1320)