

AUTO *LIGHT*

Light Transmission Meter



1. UNPACKING AND FIRST TIME USE

Congratulations on your choice of an AutoLight Light Transmission Meter. Please take the time to read this User's Guide before using the *AutoLight™* Meter in the field. Incorrect or inappropriate use of this instrument may void the warranty. Retain the packing materials for future shipping and transport of the unit for periodic calibration.

The packing box should contain:

- *AutoLight* Light Transmission Meter
- 2 x Duracell (9V) batteries (MN1604)
- User Guide
- Warranty registration card
- Calibration sample



2. INSTALLATION AND BATTERY CHANGE

Your *AutoLight* pack includes two 9-volt Duracell batteries in the battery compartment accessible from the back of the light source tube. The battery must be connected before initial use. The long-life batteries will provide up to 6 hours of continuous use (approx. 500 tests). If standard batteries are used, anticipate a shorter period of continuous use. This meter is fitted with a low voltage cut out to ensure an accurate power supply to the light source. If the unit fails to operate, replace the batteries.

To replace batteries, remove screw from cover located at the bottom of the light source. Carefully replace both batteries. Close cover. NOTE: Batteries must be disconnected and removed for prolonged storage. The warranty does not cover damage from battery leakage.



3. CHECKING READOUT

Using the glass test sample provided, check the light transmission readout by following the three testing steps outlined under '4. OPERATION'. When checking, align the light source and sensor by accurately mounting the sensor tube above the light source with the test glass in between. The light transmission value of the test sample is marked on the sample and should correspond to the reading of *AutoLight* within the level of accuracy of the instrument.

4. OPERATION

4.1 Operating Conditions and Set-up

AutoLight has a photocell built into the light sensor tube and a constant light source built into the light source tube. These components are fragile. Care should be taken when handling the unit and should not be dropped or violently shaken. **Avoid taking measurements in strong sunlight** as stray light may affect the reading accuracy. Aim the light source directly at the sensor for an accurate reading. It can be fixed or held onto one of the window surfaced while readings are being taken off the main unit.

4.2 Instructions for Use

By aligning the light source and sensor on opposing sides of the window to be tested, the

percentage of light transmitted through the window is measured.

Follow these three easy steps:

Step 1 - Align: Align *AutoLight* to the side window or windscreen so that the light source and sensor are on opposing sides.

Step 2 - Activate: After aligning *AutoLight*, press the measurement button to take a reading of the light transmitted through the window.

Step 3 - Annunciate: After the test is completed, the display shows the percentage of light transmitted through the window. *AutoLight* reads light transmission as a percentage. Simply compare the reading with the specific value according to your local regulations. The reading will remain displayed for 10 seconds, before *AutoLight Plus* turns off automatically.

Repeat steps for each window area to be tested.



Step 1 – Align



Step 2 – Activate



Step 3 - Annunciate

5. TROUBLESHOOTING

Problem	Troubleshooting
<i>AutoLight</i> will not turn on	Batteries are discharged, replace batteries
Sample glass not reading $68 \pm 3\%$ from glass value	Adjust using test sample
Light globe not working	Return <i>AutoLight</i> for servicing
<i>AutoLight</i> turns off during use	Batteries have discharged, replace batteries

For other problems, contact AutoTest Products. Repairs should only be carried out by AutoTest Products Pty Ltd or by an Authorised Service Centre in order to ensure the product retains its calibration.

6. CALIBRATION

AutoLight will require calibration at intervals of one year or as required by your local Authority. Calibration can only be carried out by AutoTest Products Pty Ltd or by an Authorised Service Centre.

7. SPECIFICATIONS AND SPARE PARTS

Battery	2 x MN1604 batteries (9 Volt) - Duracell type only
Light Source	Output 2856oK + 50oK, conforming to C.I.E. illuminant A
Lamp Voltage	Stabilises within + 0.1%
Sensor	Spectral sensitivity conforming to photopic curve V (l) of relative illuminous efficiency of the C.I.E. 1931 standard observer for photopic vision
Display	LED readout 0 - 100%, linear from 20 - 100%, $\pm 3\%$

The following spare parts can be obtained from AutoTest Products:

- Calibrated glass sample
- User guide

The replacement of any other components must be carried out by AutoTest Products or an Authorised AutoTest Products Service Centre.

8. WARRANTY

To ensure prompt warranty service should it be required, please complete warranty registration form, and return to AutoTest Products Pty Ltd within 10 days of purchase of the product. AutoTest Products or an Authorised Service Centre warrants this product against defects in material and workmanship for a period of 12 months from the original date of purchase. This warranty applies only to products and components supplied by AutoTest Products which can be identified by the trade name or logo affixed to them or by other documents. AutoTest Products does not warrant any products not supplied by AutoTest Products. During the warranty period, AutoTest Products or an Authorised Service Centre will repair (or at its option replace), any defective component(s) without charge for labour, provided the product is returned in its original or suitable equivalent container, freight prepaid, to an authorised AutoTest Service Centre. Transit insurance and return freight will be at the owner's expense.

In order to obtain calibration, warranty or non-warranty service, ship the product, freight and insurance prepaid to your nearest AutoTest Service Centre. Attach to the product your name, address, contact numbers, description of the problem and if a warranty claim, proof of purchase (dated sales receipt or invoice).

AutoTest Products or an Authorised AutoTest Service Centre reserves the right to refuse warranty repair if accident, abuse, misuse or misapplication has damaged the product in transit or as a result of service or modifications by other than an Authorised Service Centre, nor are any other warranties expressed or implied, including any regarding merchantability or fitness for any other particular purpose. AutoTest Products or an Authorised Service Centre is not responsible for incidental or consequential damages resulting from the breach of any express or implied warranty, including damage to property and, to the extent permitted by law, damages for personal injury.

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