

AutoLight[®] MAGNETIC

Hands Free Window Tint Meter





DECLARATION OF CONFORMITY

We, Auto Test Products Pty Ltd, declare under our sole responsibility that the product *AutoLight* MAGNETIC is in conformity with the provisions of the following Council Directive: 1999/5/EC.

A copy of the Declaration of Conformity is available from <http://www.autotest.net.au>

© Auto *Test* Products Pty Ltd (Auto *Test*) [2020].

Copyright in the drawings, information and data recorded in this document (the information) is the property of Auto *Test* Products. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or part for any purpose other than that for which it was supplied by Auto *Test* Products. Auto *Test* Products makes no representation, undertakes no duty, and accepts no responsibility to any third party who may use or rely upon this document or the information.

Under no circumstances shall Auto *Test* Products be responsible for any loss of data or income or any special, incidental, consequential or direct damages howsoever caused. The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, are made in relation to the accuracy, reliability or contents of this document. Auto *Test* Products reserves the right to revise this document or withdraw it at any time without prior notice.

PREFACE

Thank you for purchasing AutoTest products. Please read this manual completely before installing and operating the product so as to ensure correct operation of the product. Make certain that this manual can be accessed whenever necessary.

FOR YOUR SAFETY

Read these simple guidelines. Not following them may be dangerous. Read the complete user guide. Further detailed information is given in this manual.



SWITCH ON SAFELY

Do not switch the device on when wireless device use is prohibited or when it may cause interference or danger.



SWITCH OFF WHEN REFUELING

Do not use the device at a refuelling point. Do not use near fuel or chemicals.



SWITCH OFF NEAR BLASTING

Follow any restrictions. Do not use the device where blasting is in progress.



USE SENSIBLY

Use only in the positions as explained in the product documentation.



QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



ACCESSORIES AND BATTERIES

Use only approved accessories and batteries. Do not connect incompatible products.



WATER-RESISTANCE

Your device is water-resistant. It is not waterproof



CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.



RISK OF DAMAGE TO EYES

Wear safety goggles when operating near vehicle battery as Battery acid, fumes, oil and dust particles might cause damage to the eyes.

1. UNPACKING AND FIRST TIME USE

Congratulations on your choice of an *AutoLight* MAGNETIC Light Tint Meter. Please take the time to read this User's Guide before using the *AutoLight* MAGNETIC 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* MAGNETIC Light Tint Meter
- 1 x Glass check sample
- 2 x Duracell (9V) batteries (MN1604)
- USB stick including Manual and software
- Warranty registration card
- Glass Check sample
- Protective Bag



2. INSTALLATION AND BATTERY CHANGE

Your *AutoLight* MAGNETIC 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 check 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 ± 3 .



4. OPERATION

4.1 Operating Conditions and Set-up

AutoLight MAGNETIC 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 surfaces while readings are being taken off the main unit. For best results you should take several readings to ensure consistence across the window.

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* MAGNETIC to the side window or windscreen so that the light source and sensor are on opposing sides.

***FOR ALL DOOR WINDOWS: The cable MUST be over the door, as pictured, for the magnets to hold.**

Step 2 - Activate: After aligning *AutoLight* MAGNETIC, 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* MAGNETIC 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* MAGNETIC turns off automatically.

Repeat steps for each window area to be tested.



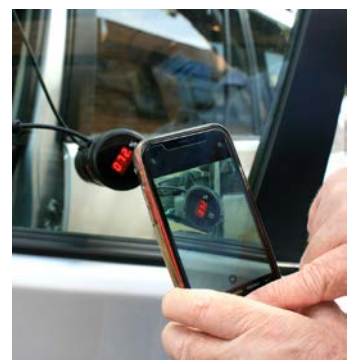
Step 1 – Align



Step 2 – Activate



Step 3 – Read



Step 4 – Document

***FOR ALL DOOR WINDOWS: The cable MUST be over the door, as pictured, for the magnets to hold.**

5. TROUBLESHOOTING

Problem	Troubleshooting
AutoLight will not turn on	Batteries are discharged, replace batteries
Sample glass not reading $\pm 3\%$ from glass value	Clean glass with a soft cloth
Light globe not working	Return AutoLight for servicing
AutoLight 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 two years (one year for UK) 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

Standards:	Conforms with ISO 3538
Battery	2 x MN1604 batteries (9 Volt) - Duracell type only
Light Source	Output 2856°K + 50°K, conforming to C.I.E. standard illuminant A
Lamp Voltage	Stabilised within + 0.1%
Sensor	Spectral sensitivity conforming to photopic curve $V(\lambda)$ of relative illuminous efficiency of the C.I.E. 1931 standard observer for photopic vision
Display	LED readout 0 - 100%, linear from 20 - 100%, $\pm 3\%$
Weight	450g

The following spare parts can be obtained from AutoTest Products:

- Calibrated glass sample
- PDF Manual
- Batteries (2 x 9v)
- Protective Bag

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.

(Express exclusions from warranty) Unless otherwise specified, this warranty does not cover:

- a) modified, abused, neglected, accidentally damaged or excessively worn products, or products that have become damaged or defective as a result of improper use;
- b) repairs attempted or made by other than our regional repair centre or authorised warranty service centre;
- c) conditions or malfunctions caused by the reasonable effects of fair wear and tear or the malfunction of normally wearing parts, which include but are not limited to:
Batteries, plugs and leads;
- d) consumable items, such as batteries (beyond 6 months from date of purchase);
- e) AutoTest products that are not distributed through AutoTest's authorised distributors and resellers.

(Warranty non-transferrable) This warranty is not transferrable beyond the original purchaser.

NOTES:

Copyright 2020 AutoTest Products Pty Ltd ABN 47 005 712 005.
® denotes a trademark owned by AutoTest Products Pty Ltd ABN 47 005 712 005.



AUTOTEST Products Pty Ltd

61-63 Parsons St Kensington VIC 3031 Australia

Phone: (+61 3) 8840 3000

Service: (+61 3) 8840 3016 service@autotest.net.au

Sales: (+61 3) 8840 3017 sales@autotest.net.au

www.autotest.net.au