

### Window Tint Meter CL 176

- ✓ Repeatability of measurements  $\leq 0,2 \%$
- ✓ Replicates sensitivity characteristic of human eye in the day-light conditions
- ✓ Certified high quality optical system
- ✓ Ease of operation
- ✓ Battery-operated
- ✓ Complying with EMC
- ✓ Three year warranty

### Purpose

The CL 176 device has been designed for measuring the proportion of light transmitted through vehicle windows. The measured parameter is the transmission ratio, which is the ratio of transmitted luminous flux to that incident on the window.

The device can be easily used at vehicle service and diagnostic centre or in open-air conditions either at night or during the day. The device can be operated by an individual

### Structure

The device consists of following units:

- illuminator with white light source type A and colour temperature  $2856 \text{ K} \pm 50 \text{ K}$ ,
- measuring head which replicates sensitivity characteristic  $V(\lambda)$  of human eye,
- measuring unit with LCD and integrated rechargeable cells,
- power pack 12V.

All units are supplied in a container for both storage and transportation.

### Technical parameters:

Light source.....	type A
Colour temperature.....	$2856 \text{ K} \pm 50 \text{ K}$
Optical detector.....	complying with $V(\lambda)$ eye sensitivity
Measuring quantity.....	percentage of light transmittance
Measuring range.....	$0,0 \div 100,0 \%$
Maximal measuring error	
- in range 70%.....	$\leq 1 \%$
- in range 0% up to 100%.....	$\leq 2 \%$
Temperature range.....	$0 \div 50 \text{ }^\circ\text{C}$
Relative humidity.....	below 90%
Atmospheric pressure.....	$860 \div 1060 \text{ hPa}$



**Illuminator**



**Measuring Head**



**Measuring unit**



The device should to be calibrated prior to use. To calibrate place illuminator on measuring head and press the button CAL. After seconds calibration is completed.



Fasten the illuminator on the outside of windscreen or side-window using the integrated suction cup. Align the measuring head on the opposite side of the window. The integrated magnetic rings secure both sections of the device. Press the button MEA and read out the measurement.



All devices are supplied in a portable container. The attached calibrated glass plate of pre-specified transmission ratio serves as a reference standard.



**CL176 has been certificated by Polish Institute of Vehicle Transportation**

**Manufacturer:**



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