

# GlossTector<sup>®</sup>

(3 angle unit)

20° 60° 85°



## Operation manual

## 1. General information

Thank you for purchase of our gloss meter.

This device is designed and manufactured according to international standard ISO 2813, ASTM D 523 and DIN 67530. The technical parameters meet the JIG 696-2002. The **GlossTector** can be used to determine the gloss level of paint coatings, plastic, ceramics and metal surfaces.

## 2. Applications:

- Measurement of paint and dope surface gloss on car, electronic appliance and musical instrument industry.
- Measurement of floor board, marble, granite and ceramic tile gloss on architecture, decoration industry.
- Measurement of printing ink and paper in printing and casing industry.
- Hard drawn aluminium alloys.

## 3. Features:

- Small and light and easy to use.
- Small power consumption - 1.5 V alkaline battery can be used for almost 60 hours and 100000 reading.
- High stability.
- Long-term stable light source do not need be replaced for ever.
- Quartz crystal standard board, no excursion.

## 4. Technical data:

- Measure range: 0~199.9 GU
- Stability: less than  $\pm 0.4$  GU/30 min.
- Readout error: less than  $\pm 1.5$  GU
- Power supply: 1.5 V AA alkaline battery
- Voltage: 0.8 V ~ 1.5 V.
- Measurement units are equipped with standard geometries of 20°, 60° or 85°.
- Facula dimension 20°: 10x10 mm, 60°: 10x20 mm, 85°: 7x24 mm.
- Dimensions of measure area: 11x54 mm.
- Environment temperature: 0°C ~ 40°C
- Relative humidity: less than 85%.
- Dimension: 142 mm x 32 mm x 64 mm.
- Dimension of standard board: 67 mm x 46 mm x 13 mm.
- Weight: 320 g

## 5. Operation instruction:

- Pressing the **ON/OFF** button starts measurements or performs functions that are displayed.
- Press the **Geometry** key of the angle's choice: In common use the 60° angle. For measuring of high gloss, select for use 20°. The 85° is to be selected for measurements on surfaces with low gloss.
- There is always to be used the black standard board box for adjusting. Place the instrument on standard board with a black glass. The under part of the device signed  $\Delta$  must aim the other one ( $\Delta$ ) of the standard box.
- Adjusting standard: Regulate the **CAL** scroll wheel on the right until the reading on screen accords to given value at the standard board box. Please note, that the standard board must be kept clean for guarantee of accurate measurement.
- Testing: Pay attention to not move the wheel again. Put the instrument on other standard board from white box. The difference between the displayed value and given one in the box should not be greater than 1.5 GU.
- Measuring: Put the **GlossTector** on the object, then read the value displayed on the screen.
- Measurement with different angles: select the other angle by pressing a key and repeat the steps above.

## 6. Safety instructions:

- Avoid direct strong light while using, otherwise it can influence the accuracy of measuring.
- Keep the standard boards clean, be sure not to touch the surface with the finger and polish with the lens paper or absolute alcohol. Any type of spots on the surface will cause the measuring error.
- Verify regular the adjusting by making of control measurements on standard boards.
- The low capacity of the battery is signalized by red light on the top of the device. In this case replace the power battery with a new one.
- Is the adjusting of the instrument on standard boards not possible, the optics lens of instrument can be polluted seriously. Try to polish the optic lens with lens paper and absolute alcohol.
- The given values of the standards may change due to environmental influences. For this reason, it is recommended

regular (ones a year) to send the device with standards boards for inspection and calibration to the manufacturer.

### **7. Sales Service:**

For further questions we are always at your disposal

### **8. Standard Scheme:**

- Device **GlossTector**.
- Two standard board boxes.
- Battery
- User manual
- Duster
- Carrying case