



The coating thickness gauges work either on the magnetic induction principle or on the eddy current principle, depending on the type of probe used. You can select the type of probe via MENU system, or it will work automatically.



## DT-157

### COATING THICKNESS TESTER

- | Measured Coatings: Non-magnetic coatings (e.g. paint, zinc) on steel; Insulating coatings (e.g. paint, anodizing coatings) on non-ferrous metals
- | Operating with MENU easily
- | Memory for 2500 readings
- | Delete single readings and all group readings easily
- | Error indication
- | Data transferred to PC via Bluetooth for analysis
- | Disable Auto-Power-Off function via MENU setting

### Application

- This compact and handy gauge is designed for non-destructive, fast and precise coating thickness measurements. The principal applications lie in the field of corrosion protection. It is ideal for manufacturers and their customers, for offices and specialist advisers, for paint shops and electroplaters, for the chemical, automobile, shipbuilding and aircraft industries and for light and heavy engineering.
- The coating thickness gauge is suitable for laboratory, workshop and outdoor use.
- The probe can work on both principles, magnetic induction and on the eddy current principle. One probe only is required for coating measurement both on ferrous and non-ferrous metal substrates. It is adaptable to specific tasks: i.e. they can be used on special geometries or on materials with special properties.

### Description

- For measurement on steel substrates, the gauge work on the magnetic induction principle, for measurement on non-ferrous metal substrates, it works on the eddy current principle.
- Measurement values and user information are shown on LCD, A backlit display ensures easy reading of screen data in dark conditions.

### 1-4.Probe

The Probe systems are spring-mounted in the probe sleeve. This ensures safe and stable positioning of the probe and constant contact pressure.

A V-groove in the sleeve of the probes facilitates reliable readings on small cylindrical parts. The hemispherical tip of the probe is made of hard and durable material.

### Technical Specifications

| Sensor probe                         | F                             | N                             |
|--------------------------------------|-------------------------------|-------------------------------|
| Working principle                    | Magnetic induction            | Eddy current principle        |
| Measuring range                      | 0~2000µm<br>0~78.7mils        | 0~2000µm<br>0~78.7mils        |
| Guaranteed tolerance<br>(of reading) | 0 ~ 1000 µm<br>(±2%±2µm)      | 0 ~ 1000 µm<br>(±2%±2µm)      |
|                                      | 1000~ 2000 µm<br>(±3.5%)      | 1000~ 2000 µm<br>(±3.5%)      |
|                                      | 0~39.3mils<br>(±2%±0.08 mils) | 0~39.3mils<br>(±2%±0.08 mils) |
|                                      | 39.3~78.7mils<br>(±3.5)       | 39.3~78.7mils<br>(±3.5)       |
| Precision                            | 0~100µm (0.1µm)               | 0~100µm (0.1µm)               |
|                                      | 100µm~1000µm (1µm)            | 100µm~1000µm (1µm)            |
|                                      | 1000µm~2000µm (0.01mm)        | 1000µm~2000µm (0.01mm)        |
|                                      | 0~10mils (0.01 mils)          | 0~10mils (0.01 mils)          |
|                                      | 10~78.7mils (0.1 mils)        | 10~78.7mils (0.1 mils)        |
| Minimum curvature radius             | 1.5mm                         | 3mm                           |
| Diameter of Minimum area             | 7mm                           | 5mm                           |
| Minimum measurable thickness         | 0.5mm                         | 0.3mm                         |
| Overload display                     | ---                           |                               |
| Working temperature                  | 0°C~40°C (32°F~104°F)         |                               |
| Working relative humidity            | 20%~90%                       |                               |

### Accessories

Battery, Hard Carrying Case, CD with Softwares, Calibration Iron Plate, Calibration Aluminium Plate Precision Standards, Instruction manual and Test Certificate.

Contact :

**CEM INSTRUMENTS (INDIA) PVT. LTD.**

32A, Ganesh Chandra Avenue, 4th Floor, Kolkata-700013

Tel: 033-22151376, 22159759

Email: info@cem-instruments.in / info@cem-india.com

Web: www.cem-instruments.in / www.cem-india.com

**CEM INSTRUMENTS HEADQUATER & FACTORY**

19th Building, 5th Region, Baiwangxin Industry Park,

Songbai Road, Baimang, Xili, Nanshan, Shenzhen,

China, 518108

Tel: +86-755-27353188, Fax: +86-755-27653699

