PRODUCT DESCRIPTION

This handy, robust and easy to use TQC coating thickness gauge is ideal for measurement tasks in various industries and paint applications. This compact meter allows measurement of painted objects, or other corrosion protective layer thicknesses, with accuracy measured in both Fe (iron or steel) and NFe (aluminium, copper, brass or non-magnetic steel).

BUSINESS

Protective Coatings, Corrosion Control, Coating Laboratories, Paint Production, Surface Finishing, Powder Coating, Decorative Coatings, Building Maintenance

STANDARDS

ISO 2808

FEATURES

- 128x128 dot matrix display
- Two measuring modes: Single and continuous
- Two group modes: direct (DIR) and general (GEN)
- Zero point calibration and multi-point calibration (up to 4 points) for each group
- Possibility to recall and delete specified readings or delete group readings
- Three different probe modes; auto, magnetic and eddy current
- Possibility to set high or low limit alarm for each group
- Power off automatically
- USB interface for data transfer
- Low battery and error indication

SCOPE OF SUPPLY

- TQC Fe/NFe Coating thickness gauge
- USB cable
- Software
- 2 x batteries 1.5V AAA
- Foil set
- NFe zero plate
- Fe zero plate
- Carrying Case
LD0800 – TQC Fe/NFe Coating Thickness Gauge

SPECIFICATIONS

Measuring Principle: \( F \) probe = magnetic induction / \( N \) probe = eddy currents

Measuring range: 0-1300μm / 0 to 51.2 mils

Accuracy: \( \pm 3\% + 2\mu m \) (0.078 mils)

Resolution:
- \( 0\mu m – 999\mu m \) (1μm) / 0 mils – 39.39 mils (0.01 mils)
- \( 1000\mu m – 1300\mu m \) (0.01mm) / 39.4 mils – 51.2 mils (0.1 mils)

Calibration: One point to four points calibration, zero point calibration, basic

Data group:
- One direct group (readings not stored in memory)
- Four general group (readings will be stored automatically)

NOTE: each group has individual statistics, alarm limit settings and calibration

Statistics:
- No. of readings, mean, minimum, maximum and standard deviation

Units:
- \( \mu m, \text{mm and mils} \)

Alarm:
- User can set high/low alarm limit, alarm icon displayed on LCD when over limit

Min. curvature radius convex: 1.5mm

Min. curvature radius concave: Diameter 6mm

Min. measuring area: 25mm

Min. thickness of substrate:
- Fe - 0.5mm (0.02") / NFe - 0.3mm (0.012")

Max. Measuring rate: 2 readings p/s

Computer interface:
- Download data via USB

Power supply: 2 x 1.5V AAA battery

Operation environment:
- Temp: 0 to 40°C (32 to 104°F) / Humidity: 20% to 90%

Storage environment:
- Temp: -20 to 70°C (-4 to 158°F)

Standard Compliance: ROHS WEEE

Size: 110mm x 53mm x 24mm (4.33"x 2.09"x 0.94")

Case material: ABS 92g (3.24oz)

USE

See detailed manual

SPECIAL CARE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.
- Always keep the instrument in its case when not in use.
- We recommend annual calibration

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