

TQC FE/NFE COATING THICKNESS GAUGE

LD0800

DATASHEET

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
- CarryingCase



ORDERING INFORMATION

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:	±3% + 2µm (0.078 mils)
Resolution:	0µm – 999µm (1µm) / 0 mils – 39.39 mils (0.01 mils) 1000µm – 1300µm (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:	µm, 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:	25mm
Min. measuring area:	Diameter 6mm
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

DISCLAIMER

The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.