COATING THICKNESS GAUGE

LM-MCDX-7F

- **Single measurement, scan measurement, duplex measurement**
- **Colour touch screen (320 × 480 pixels)**
- **Data storage**
- **USB and wireless**
- **Magnetic inductive measuring probe**

Numerous specialized digital probes can be connected to the coating thickness gauge. This makes applications on particularly small openings, thick coatings and hard-to-reach or small measuring points possible without any problems. Special functions such as scan measurement for rough surfaces and duplex measurement for galvanized and additionally coated steel extend the performance spectrum.

The newly developed digital probe technology enables extremely stable measurement values thanks to a high sampling rate. The measurement signals are digitized directly in the probe for interference-free and precise recording, which leads to particularly accurate and reproducible results. The magnetic induction method for this coating thickness gauge allows measurements of paint, varnish, plastic, rubber, ceramics, galvanization and galvanic coatings on steel. The eddy current method can be used to measure insulating coatings such as paint, varnish, plastic or anodized coatings on non-ferrous metals.

The device has a graphic LCD touch panel with innovative user guidance and a resolution of 320 × 480 pixels. The menu navigation is in German and English, other language packages are optionally available. A protective silicone frame reliably protects the housing from external influences.

The flexibly structured measured value memory and freely definable calibration configurations offer a wide range of options for customized data acquisition.

Specification

Layer thickness	
Measurement range up to	2 ... 100 µm
Resolution	0,1 µm
Accuracy	±1 µm
Layer thickness	
Measurement range up to	100 ... 1000 µm
Resolution	1 µm
Accuracy	±1%
Layer thickness	
Measurement range up to	1000 ... 2000 µm
Resolution	10 µm
Accuracy	±3%
Layer thickness	
Measurement range up to	2000 ... 7000 µm
Resolution	10 µm
Accuracy	±5%
Sensor	
Designation	DX7-F
Measurable materials	Measurement of paint, varnish, plastic and galvanised coatings on steel
Min. measuring surface	Ø 4 mm
Min. radius of curvature convex	4 mm
Min. radius of curvature concave	38 mm
Additional description	FE probe for thick layers with sliding sleeve and prism

General technical data	
Measuring functions	Quantity, MAX, MIN, Average value, Standard deviation
Units	µm, mils
Display type	LCD touchscreen
Display resolution	320x480 pixels
Storage medium	Internal memory
Storage capacity	10000 Measurements
Interface	USB, SCPI
Standard(s)	ISO 2178, ISO 2360, BS 5411, ASTM
Operating time	25 h
Operating time additional information	Unlimited with external power source
Automatic power-off from...to	5 ... 30 min.
Automatic power-off can be deactivated	Yes
Menu language	German, English (GB), English, Italian, French, Spanish
Protection class (device)	IP64
Power supply	3x 1.5V AA battery or 5V via USB
(Rechargeable) battery	3 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Operating conditions	0 ... 50 °C , 10 ... 90 % RH
Storage conditions	0 ... 50 °C , 10 ... 90 % RH
Dimensions (L x W x H)	150 x 85 x 35 mm
Weight	251 g