3000FX SERIES

Hand-held coating thickness gauges

3 Models: DCF-3000FX - Ferrous Only
DCN-3000FX - Non-Ferrous Only
DCFN-3000FX - Combination Ferrous & Non-Ferrous

Measuring Range: 0-60.0 mils (0-1500 µm)

Live Statistics Displays: Up to 10,000 readings can be statistically evaluated—Number of readings, mean value, standard deviation, maximum and minimum reading

The 3000FX Series is a compact, lightweight, multifunctional fully menu driven coating thickness gauge for fast, precise, non-destructive coating thickness measurement for varnish, paint and electroplated coatings on iron/steel and varnish, paint and anodizing coatings on non-ferrous metals and on austenitic stainless steels

All external probes are machined to ultra-high standards and utilize a unique, hard-metal probe tip which prevents probe wear.
A V-notched footer provides a stable footing on small cylindrical parts. It can be removed to expose a “micro-probe” sensor perfect to measure on small surfaces and parts.

Features

- Innovative and user-friendly measuring techniques.
- Data transfer to printer or PC via an infra-red interface.
- The 3000FX Series identifies the substrate and activates the appropriate measuring procedure.
- Menu in a choice of three languages ensures easy operation.
- The uniform contact pressure of the sensor is minimized, preventing scratches and indentations to sensitive surfaces.
- Optional high temperature footer for measuring on surfaces up to 302 °F (150 °C).
- NIST Certificate Included at no additional cost.
- 1 Year Warranty.

The ultimate in portable precision
Specifications

Measuring principle
Magnetic induction principle (Ferrous)
Eddy-current principle (Non-Ferrous)

Range
0 - 60.00 mils
0 - 1500 µm

Accuracy
±0.04 mils / 1µm + 1% of reading

Resolution
0.004 mils / 0.1 µm or < 2 % of reading

Display
Back-light, 4-digit alphanumeric,
digit height 10mm

Minimum Measuring Area
0.2" x 0.2" (5 mm x 5 mm)

Minimum Curvature Radius
Convex: 0.12" (3 mm), concave: 0.2" (5 mm)

Minimum Substrate Thickness
Ferrous: 20 mils / 0.5 mm
Non-Ferrous: 2 mils / 50 µm

Calibration
Factory calibration, zero calibration, foil
 calibration, offset-function: addition or
 subtraction of a constant value

Memory
80 readings

Statistics Program
Number of readings, mean value, standard deviation,
maximum and minimum reading of max. 10,000 readings

Data Output
Infrared IrDA Standard

Operating Temp.
32 °F - 122 °F / 0 °C - 50 °C

Surface Temp.
5° F - 140° F / -15° C - 60° C (standard)
5° - 302° F / 15° - 150° C (w/optional footer)

Storage Temp.
-4 °F to 140 °F / -20 °C to +60 °C

Power
2 AA 1.5V

Dimensions
5.6" x 2.5” x 1.2”
(140 mm x 62 mm x 30 mm)

Weight
7 oz (200 g) (gauge + probe)

Protection Class
IP 52 (proof against dust and
dripping water)

Standards
DIN, ISO, ASTM, BS

Warranty / Calibration Certificate
1 Year / Included

INFRA-RED PRINTER
3000-IRP: Portable thermal-printer with
an integrated infrared interface for wireless
data transfer. It can print values stored in the 3000 Series
coating thickness gauges quickly and reliably locally or later in the office.

TEST STAND
3000-PTS: Designed for smooth,
repeatable measurements for coating thickness applications.
• Spring-loaded lever for fast,
precise travel.
• Compact size and light weight
make it the ideal test stand
for all workplaces.

RESOLUTION
Mils
0.00 – 9.99 mils
10.00 – 24.98 mils
25.00 – 49.95 mils
50.00 – 60.00 mils

Microns (µm)
0.00 – 99.9 µm
100.0 – 249.8 µm
250.0 – 499.5 µm
500.0 – 1500.0 µm

MEASURING LIMITS
Minimum Radius
for Convex Surfaces
0.12“ (3mm)

for Concave Surfaces
0.2“ (5mm)

Minimum Headroom
4” (100 mm)

Minimum Sample Diameter
0.2“ (5mm)

Minimum Substrate Thickness - F
20 mils (0.5 mm)

Minimum Substrate Thickness - NF
2 mils (50 µm)

CHECK•LINE® - PRECISION QUALITY CONTROL INSTRUMENTS

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