CHECK·LINE®

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

The 3000FX Series is supplied as a complete kit with gauge, ferrous and or non-ferrous zero plate (model dependent), 2 calibration standards, 2 AA batteries, carrying pouch, manual and manufacturer's calibration certificate.

Resolution

Mils

0.00 – 9.99 mils	0.01 mils
10.00 – 24.98 mils	0.02 mils
25.00 – 49.95 mils	0.05 mils
50.00 – 60.0 mils	0.1 mils

Microns (µm)

0.0 – 99.9 µm	0.1 µm
100.0 – 249.8 µm	0.2 µm
250.0 – 499.5 µm	0.5 µm
500.0 – 1500.0 µm	1 µm

Measuring Limits

Minimum Radius for Convex Surfaces	0.12" (3mm)
Minimum Radius 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 - NFe	2 mils *(50 µm)*

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 app;lications.

- Spring-loaded lever for fast, precise travel.
- Compact size and light weight make it the ideal test stand for all workplaces.

CHECK•LINE® – Precision Quality Control Instruments

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Printed in U.S.A.