

# Surfix® Series

## Universal Coating Thickness Gauge: With external, non-switched probe.

The Surfix®-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.

|           |                                                                  |                  |
|-----------|------------------------------------------------------------------|------------------|
| 6 Models: | Surfix® FN                                                       | Surfix® FN basic |
|           | Surfix® F                                                        | Surfix® F basic  |
|           | Surfix® N                                                        | Surfix® N basic  |
|           | basic:<br>without memory, statistics, limit values, IR-interface |                  |

1 Probe: External, non-switched probe

Measuring Range: 0 – 1500 µm (0 – 60 mils)

### Probe

The external, non-switched probe is machined to ultra-high standards and utilizes a unique, hard-metal probe tip which prevents probe wear. The V-notched foot of the probe provides a stable footing even on small cylindrical parts. It can be removed to expose a “micro-probe” sensor perfect to measure on small measuring areas and in cavities.



### Features

- Innovative and user-friendly measuring techniques
- Online statistics with all common parameters
- Data transfer to printer or PC via an infrared interface
- The Surfix® FN automatically identifies the substrate and activates the appropriate measuring procedure
- Menu in a choice of different languages ensures easy operation
- The uniform contact pressure of the sensor is minimized, preventing scratches & indentations to sensitive surfaces
- Optional high temperature foot for measuring on surfaces up to 150 °C (302 °F)
- Manufacturer's Certificate and one year warranty included



**Surfix®: The ultimate  
in portable precision.**

### Test-Stand (optional)

- Designed for smooth, repeatable measurements for coating thickness applications
- Spring-loaded lever for fast, precise travel
- Compact size and light weight makes it the ideal test stand for all workplaces



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# Specifications

## for Surfix® with FN probe

### Measuring principle:

Magnetic induction principle (F-Mode) for ferrous metals

Eddy-current principle (N-Mode) for non-ferrous metals

FN-Mode for all metals

### Range:

0 – 1500 µm (0 – 60 mils)

### Accuracy:

± (1 µm / 0.04 mils + 1 % of reading)

### Resolution:

0.1 µm / 0.004 mils or < 0.2 % of reading

### Display:

Backlight, 4-digit alphanumeric, height 10 mm (0.4")

### Calibration:

Factory-, zero- and foil-calibration

Offset-function: addition/subtraction of a constant value

### Memory:

Max. 200 readings

### Statistics Program:

Number of readings, mean value, standard deviation, max. and min. reading

### Data Output:

Infrared interface

### Operating Temperature:

0°C to +50°C / 32°F to 122°F

### Surface Temperature:

-15°C to +60°C / 5°F to 140°F (standard)

-15°C to +150°C / 5°F to 302°F (with optional foot)

### Power:

2 AA, 1.5 V

### Dimensions:

137 mm x 66 mm x 23 mm (5.4" x 2.6" x 0.9")

### Weight:

205 g (7.2 oz) incl. batteries

### Protection Class:

IP 52 (proof against dust and dripping water)

### Standards:

DIN, ISO, ASTM, BS

### Measuring Limits



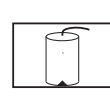
Minimum Radius  
for Convex Surfaces

1.5 mm (0.06")



Minimum Radius  
for Concave Surfaces

5 mm (0.2")



Minimum Headroom

100 mm (4")



Minimum  
Measuring Area

5 mm x 5 mm  
(0.2" x 0.2")



Minimum Substrate  
Thickness – F  
Minimum Substrate  
Thickness – N

0.2 mm (8 mils)

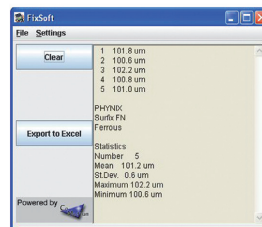
50 µm (2 mils)

### Printer PrintFix (optional)

Portable thermal-printer with an integrated infrared interface for wireless data transfer. It can print values stored in the Surfix® gauge quickly and reliably locally or later in the office.



### Software FixSoft (optional)



Transfer program for Surfix® gauge. The measurement values are transferred in a pre-compiled template for spreadsheet programs together with a histogram and a trend presentation.

### Delivery Schedule

Surfix® for FN version: Gauge incl. probe, 2 calibration foils, ferrous and non-ferrous zero plate, 2 AA batteries, manual and manufacturer's certificate; all in a rugged plastic carrying case. Carrying pouch optional.



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