

- + USB interface
- + Large data memory
- + Excel connection



## SURFIX® X-SERIES

**Modern measuring instruments: graphic display, PC connection and easy operation, combined with the proven PHYNIX probes**

### Application area

The outstanding feature of this new PHYNIX gauge is the brilliant color graphic display with improved text presentation and allows a variety of different operating languages. The standard now includes English, German, French, Italian, Spanish, Turkish, Czech and Chinese (simple and traditional).

The internal memory was greatly enlarged compared to the Surfix series and now allows the storage of up to 2,000 measured values. The connection to a computer is simply via USB 2.0. Cable and data transfer program PHYNIX.connect is part of the delivery. The latter allows transfer of readings to all modern Windows systems and export to Excel.

Two models are available: the Surfix® SX can be connected to all probes from the PHYNIX probe program. This ensures the highest possible flexibility which enables the device to fulfill many different measurement tasks.

The Surfix® EX devices with the fixed standard probe are suitable for applications where the measurement tasks are clearly defined. It is easy to use and also more cost efficient compared to the Surfix® SX with the high-quality plug-in connection.

### Surfix® SX/EX gauges are used in the following fields:

- + in the electroplating industry
- + in the painting industry
- + in the automotive industry
- + in the chemical industry
- + in aerospace engineering
- + in shipbuilding
- + in research labs and universities
- + in the workshop
- + for consultants and assessors

### Advantages at a glance:

- + Innovative and user-friendly measurement technology
- + High-resolution color graphics display
- + USB interface
- + Automatic recognition of the base material
- + Data memory for up to 2,000 measured values
- + Online statistics
- + Intuitive menu guidance
- + Measurements on hot surfaces up to 150 °C or 300 °C (optional)
- + Manufacturer's test certificate
- + 1 year warranty

# SURFIX® X SERIE



Surfix® X Series gauges are available as Surfix® SX and Surfix® EX variants: With interchangeable or fixed probes, the Surfix® X Series offers the highest precision for almost any application.

| Technical data        | Surfix® SX                                                                                    | Surfix® EX                                                                  |
|-----------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Specification         | for connection of exchangeable, separate probes                                               | external, fixed probes                                                      |
| Available probes      | 1.5 mm standard probe (optional acid-resistant) (FN, F, N)                                    | 1.5 mm standard probe for iron/steel and non-ferrous metals (Surfix® EX-FN) |
|                       | 1.5 mm rectangular probe (FN, F)                                                              | 1.5 mm standard probe for iron/steel (Surfix® EX-F)                         |
|                       | 1.5 mm/90° tube probe (FN)                                                                    | 1.5 mm standard probe for non-ferrous metals (Surfix® EX-N)                 |
|                       | 0.2 mm precision probe (FN)                                                                   |                                                                             |
|                       | 3.5 mm rectangular probe with increased measurement range (FN, F)                             |                                                                             |
|                       | 10 mm rectangular probe with large measurement range (F)                                      |                                                                             |
|                       | (for more details see probe flyer)                                                            |                                                                             |
| Measurement range     | depending on the probe, up to 30 mm                                                           | 0 – 1.500 µm                                                                |
| Accuracy              | depending on the probe<br>up to +/- (0.7 µm + 1 % of reading)                                 | +/- (1 µm + 1 % of reading)                                                 |
| Resolution            | 0.1 µm or < 0.2 % of reading (with standard probe)                                            |                                                                             |
| Calibration method    | works calibration, zero calibration, one-foil calibration; zero-offset                        |                                                                             |
| Statistics            | Number of measured values, mean value, standard deviation, minimum and maximum measured value |                                                                             |
| Memory                | max. 2.000 readings                                                                           |                                                                             |
| Data transfer         | USB 2.0                                                                                       |                                                                             |
| Display               | high-resolution color display                                                                 |                                                                             |
| Operating temperature | 0 °C to + 50 °C                                                                               |                                                                             |
| Surface temperature   | –15 °C to + 60 °C (standard)                                                                  |                                                                             |
|                       | –15 °C to + 150 °C or 300 °C (with optional high temperature feet)                            |                                                                             |
| Dimensions gauge      | 137 mm x 66 mm x 23 mm                                                                        |                                                                             |
| Weight                | 205 g (incl. FN 1.5 probe and batteries)                                                      |                                                                             |
| Protection class      | IP 52 (protection against dust and dripping water)                                            |                                                                             |
| Standards             | DIN, ISO, ASTM, BS                                                                            |                                                                             |
| Warranty              | 1 year                                                                                        |                                                                             |

## Example of standard package

- Gauge
- Protective rubber-cover
- 2 calibration foils
- Zero plate(s) (steel/aluminium)
- 2 batteries AA
- PHYNIX.connect transfer software
- USB cable
- Operating manual
- Manufacturer's certificate
- Transport case

## Additional options

- Probes according to PHYNIX delivery program
- Probe guide for precision measurements on small parts
- Calibration standards
- Manufacturer's certificate TYP M DIN 55350