



USB interface
incl. charging
+
Large data memory
+
Excel connection

SURFIX® X-SERIE

**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
- + 2 years 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 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)	
Power supply	2 batteries AA · 2 NiMH rechargeable batteries AA (quick-charge-compatible) · USB connection (USB 2.0)	
Protection class	IP 52 (protection against dust and dripping water)	
Standards	DIN, ISO, ASTM, BS	
Warranty	2 years	

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
- NiMH batteries, rechargeable via USB-connector
- Manufacturer's certificate TYP M DIN 55350