®SaveCoat C-1

Electromagnetic contact thickness gauging

www.savecoat.com

Application area

The outstanding feature of this new SaveCoat gauge is the brilliant color graphic display with improved text presentation and allows a variety of operating languages. The internal memory allows the storage of up to 2,000 measured values. The connection to a computer is simple via USB 2.0. Cable and data transfer program SaveCoat-Transfer is part of the delivery. The latter allows transfer of readings to all modern Windows systems and export to Excel. The SaveCoat C-1 can be connected to a variety of EM-Probes. This ensures the highest possible flexibility which enables the device to fulfill many different measurment tasks.

The application areas

- 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

Technical data	
Measurement range	depending on the probe, up to 30 mm
Accuracy	depending on the probe up to +/– (0.7 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 bis + 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

Example of standard package

- Gauge
- Protective rubber-cover
- 2 calibration foils
- Zero plate(s) (steel/aluminium)
- 2 batteries AA
- "SaveCoat Transfer" software
- USB cable
- Operating manual
- Manufacturer‘s certificate
- Transport case

Additional options

- Probe guide for precision measurements on small parts
- Calibration standards
- Manufacturer‘s certificate TYP M DIN 55350

The probes ...

… the heart of our thickness gauging.
Innovations and ongoing further developments provide optimal results with high accuracy and flexibility for a wide range of industrial applications.

Probe overview

The various measurement tasks of our customers are reflected in our comprehensive probe program.

To determine the optimal probe the following aspects need to be considered:

- **Material combination of layer and base material**
- **Thickness of the layer and of the base material**
- **Dimensions of the measurement object**
- **Surface texture of the object**

- **F-type probes (ferromagnetic)**
  Magnetic-inductive method (according to DIN EN ISO 2808/2178 and ASTM B499) on ferromagnetic base materials, such as iron and steel.

- **N-type probes (non-ferromagnetic)**
  Eddy current method (according to DIN EN ISO 2808/2360 and ASTM D7091) on non-magnetic, metal based materials, such as aluminium, zinc, copper, etc.

- **FN-type probes (combination probes)**
  Suitable for magnetic and non-magnetic base materials such as iron / steel and non-ferrous metals. The appropriate measurement method for each base material is automatically activated and is indicated in the display.

Characteristics of our probes

- **Durability**
  Our probes are extremely robust and resistant to wear and have a nearly unlimited lifespan.

- **Made in Germany**
  All probes are designed and manufactured in Germany under the highest quality standards.

- **Curvature compensation**
  The different calibration methods allow measurement on highly curved surfaces by a simple calibration procedure.

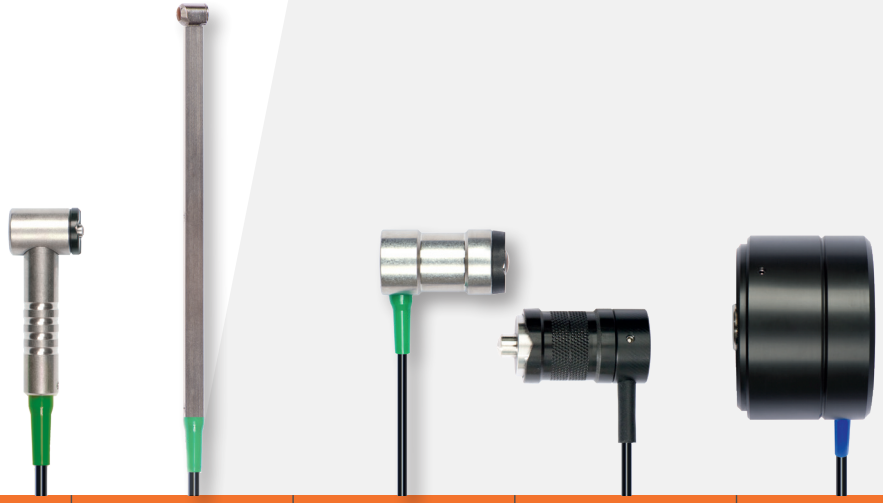
- **Works calibration**
  Each probe passes through an individual, internal calibration to ensure maximum accuracy.

- **Switch on and measure**
  In most cases, a measurement without additional calibration is possible.

SaveCoat®

Standard probes

Technical data		FN 0.2	FN 1.5	F 1.5	N 1.5
Measurement range		0–200 µm on steel/iron and non-ferr. metals	0–1.500 µm on steel/iron and non-ferr. metals	0–1.500 µm on steel/iron	0–1.500 µm on non-ferrous metals
Accuracy	with works calibration	+/– 2,5 µm or 2,5 % (whichever is greater)	+/– 3 µm oder 3 % (whichever is greater)		
	with zero calibration	+/– (0,7 µm + 1,5 %)	+/– (1 µm + 2 %)		
	with foil calibration	+/– (0,7 µm + 1,0 %)	+/– (1 µm + 1 %)		
Acid-resistant pole-tip		—	optional	—	optional
Temperature range		0 °C bis 60 °C			
Dimensions		Ø 14 mm x 83 mm			
Weight		ca. 70 g			
Hot measurement foot		–15 °C bis 150 °C			
High temperature foot		—	–15 °C bis 300 °C (0 bis 1.000 µm)		



Special probes

Technical data		FN 1.5R F 1.5R	FN 1.5/90° (for pipes and tubes)	FN 3.5 F 3.5	F 10	F 30
Measurement range		0–1.500 µm	0–1.500 µm	0–3.500 µm (F) 0–3.000 µm (N)	0–10 mm	0–30 mm
Accuracy	with works calibration	+/– 3 µm or 3 % (whichever is greater)	+/– 3 µm or 3 % (whichever is greater)	+/– 5 µm or 3 % (whichever is greater)	+/– 10 µm or 3 % (whichever is greater)	n. a.
	with zero calibration	+/– (1 µm + 2 %)	+/– (1 µm + 2 %)	+/– (2 µm + 2 %)	+/– (5 µm + 2 %)	+/– (10 µm + 4 %)
	with foil calibration	+/– (1 µm + 1 %)	+/– (1 µm + 1 %)	+/– (2 µm + 1 %)	+/– (3 µm + 1 %)	+/– (10 µm + 2 %)
Temperature range		0 °C to 60 °C				
Dimensions		Ø 16 mm x 24 mm x 62 mm	8 mm x 12 mm x 180 mm	Ø 25 mm x 47 mm	Ø 25 mm x 47 mm	Ø 75 mm x 55 mm
Weight		appr. 90 g	appr. 85 g	appr. 105 g	appr. 85 g	appr. 400 g

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