Surface Tester PCE-CT 29-ICA incl. iso calibration certificate

Surface Tester with a measuring range of 0 ... 2000 µm / Micro-USB /
statistics function / limit value alarm function / temperature and moisture measurement / V-groove
Software for transferring the measured values

The Surface Tester has a measuring range of 0 ... 2000 µm. The Surface Tester can measure the coating thickness on ferrous (Fe) and non-ferrous (NFe) metals. For a better analysis of the measurements, the coating thickness gauge has a measuring function based on the SSPC standards. With this function, the corrosion protection of a coating can be checked with the Surface Tester.

The Group function stores the measured values directly on the Surface Tester. A memory of 50 groups with 50 measurements each is available on the Surface Tester. In each group, statistics are created for all measured values from the Surface Tester. All measurement data and statistics can be recalled after a measurement run on the Surface Tester.

For further analysis of the measured values, the Surface Tester can be connected to a PC. The Surface Tester has a micro-USB interface for this purpose. The software can be used to transfer the measurement data from the Surface Tester to a PC. In addition, it is possible to carry out live measurements with the Surface Tester using the software. For further processing of the measured values from the Surface Tester, they can be exported in CSV and XLS format via the software.

In addition to the coating thickness measurement, the Surface Tester can measure the temperature and humidity of the environment. Thus, the Surface Tester can be used to find out whether the climatic conditions are right to carry out further processing on the coating.

With the V-groove, the coating thickness of, for example, pipes can also be determined with the Surface Tester.

- Measuring range 0 ... 2000 µm
- with SSPC measuring function
- Individually adjustable limit value alarms
- Data memory with up to 2500 measured values
- temperature and humidity measuring function

Subject to change

Specifications

Measurement on ferrous metal (Fe)

Measuring range	**0 ... 2000 µm**
Resolution	0.1 µm @ 0.0 ... 99.9 µm
	1 µm @ 100 ... 2000 µm
Accuracy	±(2 % ±2 µm of Mw.)
Repeatability	±(1 % ±1 µm of Mw.)
Smallest radius of curvature	1.5 mm
Smallest measuring area	Ø7 mm
Smallest layer thickness	0.5 mm

Measurement on non-ferrous metal (NFe)

Measuring range	**0 ... 2000 µm**
Resolution	0.1 µm @ 0.0 ... 99.9 µm
	1 µm @ 100 ... 2000 µm
Accuracy	±(2 % ±2 µm of Mw.)
Repeatability	±(1 % ±1 µm of Mw.)
Smallest radius of curvature	3 mm
Smallest measuring area	Ø5 mm
Smallest layer thickness	0.3 mm

Temperature

Measuring range	0 ... 50 °C / 32 ... 122 °F
Resolution	0.1 °C / °F
Accuracy	±1.2 °C / ±2.2°F

Humidity

Measuring range	0 ... 100 % r. h.
Resolution	0.1 % r. h.
Accuracy	±3.2 % r. h. @ 20.0 ... 70.0 % r. h.
	±4.0 % r. h. @ 0.0 ... 19.9 % r. h.
	±4.0 % r. h. @ 70.1 ... 100.0 % r. h.

More information

Datasheet

More product info

Similar products

Subject to change

Further specifications

Base material for measurements Ferrous (Fe) and non-ferrous (NFe) metals

Display	2.4 " LC display
Automatic display orientation	0, 90, 180 and 270 °, can be switched off (only measuring window)
Statistic functions	average, highest, lowest and SDEV measured value
Measuring modes	direct, groups, SSPC
Units	µm, mm, mils, inch
Power supply	2 x 1.5 V AA batteries
Interface	Micro-USB (for data transfer only)
Alarm	signal tone and / or LED signal light in case of Exceeding of the adjustable upper and lower alarm limit
Switch-off	Off, 30 seconds, 1 minute, 5 minutes
Menu languages	English, German, French, Spanish, Italian, Portuguese, Chinese, Japanese
Operating conditions	0 ... 50 °C, 20 ... 90 % r.h., non-condensing
Storage conditions	-10 ... +60 °C, 20 ... 90 % r.h., non-condensing
Dimensions	35 x 64 x 137 mm
Weight	175 g