

Technical Data

Coating Thickness Gauge Pocket-LEPTOSKOP

KARL DEUTSCH

TechDat_PL_E1d Ho 22-Sep-10 1/1

Display

Technology B/W-LCD, transfective, backlight with electro luminescence area
Visual area 25 mm x 16 mm approx.
Resolution 128 x 64 pix
Display contents can be rotated for convenient overhead measurement

Gauge Types

2018 NFe Measuring range: 0 .. 1200 µm (47 mils)
Measuring method: Eddy current method according to DIN EN ISO 2360
2021 Fe Measuring range: 0 .. 3000 µm (120 mils)
Measuring method: Magnetic inductive method acc. to DIN EN ISO 2178
2026 Fe/NFe Combined probe for Fe and NFe measurement. The type of substrate metal is detected automatically.

Calibration

Modes Zero and foil calibration with mean calculation for uneven surfaces or standard calibration ex works

Acquisition of readings (with software extension "Statistics and Data Memory")

Data memory 10 files with up to 900 readings each
Statistics Minimum, maximum, number of readings, mean
All values show directly on the display

Measurement uncertainty

After zero and foil calibration on ST 52 / AlMgSi0.5

- for coatings < 100 µm: 1 % +/- 1.5 µm
- for coatings from 100 µm to 1200 µm: 1 to 3 % +/- 1 µm
- for coatings > 1200 µm: 3 to 5 % +/- 1 µm

Operation

Type menu guided
Languages German, English, French, Spanish, Italian, Portuguese, Swedish, Polish, Czech, Romanian

Inputs/outputs

Interface connector 2.5 mm stereo jack, via adapter cables suitable for RS232 or USB
Sound generator For signal tone on acknowledgement of measured values (single measurement), key tone, battery empty, error indications

Miscellaneous

Measurement units To be selected from µm, mm, inch and mil

Power supply

Battery operation 1 alkali/manganese battery (size AAA, micro)
Battery life-time 100 hrs (the life-time is reduced when display illumination is on)
Indication of battery capacity Visually by symbol in the display, acoustically by alarm tone before under-voltage status is achieved

Permissible ambient conditions

Operating temperature 0 °C to +45 °C
Storage temperature -20 °C to +60 °C with removed battery
0 °C to +45 °C with inserted battery
Dust and humidity Protection class IP 40 (protection against ingress of particles >= 1 mm)

Housing

Size (h x w x d) 48 mm x 94 mm x 17 mm
Weight 70 g, 2.6 oz
Material ABS, black

Keyboard

Design 4 keys, foil keypad

Subject to change without notice