MATERIAL THICKNESS METER

PCE-TG 150A F25



- **measured value memory**
- **calibration reference on housing**
- **automatic power off**
- **material thickness measurement up to 300 mm**
- **battery status display**
- **optional ISO calibration certificate**

The material thickness meter can measure material thicknesses of up to 300 mm. To ensure that the material thickness of a wide variety of homogeneous materials can be measured, it is possible to save the corresponding sound velocity in the material thickness meter. For materials such as steel, aluminium, zinc, silver and gold, the appropriate sound velocities are already saved in the device library. This means that the material thickness meter can be used universally.

Individual maximum and minimum values can be saved using the material thickness meter's limit value function. If the measured value of the sample is outside the limits, the material thickness meter signals this visually. If required, the material thickness meter can also provide an acoustic signal in addition to the visual display. The material thickness meter is therefore used, for example, in quality assurance and incoming goods inspection.

The material thickness meter has a data memory in which the measured values can be recorded. After a measuring procedure, the saved readings can be analysed directly in the material thickness meter. The saved data is displayed as a graph on the material thickness meter. In addition, each individual measuring point can be approached and read in the graph of the material thickness meter. To simplify the analysis of the measured values, the average, the highest and lowest measured values are displayed on the material thickness meter.

Specification

Material thickness	
Measuring range	1,2 ... 99,99 mm
Resolution	0,01 mm
Accuracy	±0.5 % of Rd +0.05 mm
Material thickness	
Measuring range	100 ... 300 mm
Resolution	0,1 mm
Accuracy	±0.5 % of Rd +0.05 mm
Sensor	
Designation	PCE-TG 2.5M
Battery type	Ultrasound
Frequency	2.5 MHz
Temperature range	-10 ... 60 °C
Measurable materials	Steel, aluminium, zinc, silver, gold, metal, plastic, ceramic, glass, other homogeneous materials
Minimum diameter of pipes	50 mm
Additional description	Thickness measurement of cast materials
Dimension	Ø 12 mm x 28.3 mm

General technical data	
Units	mm
Display type	TFT colour display
Display size	2,4 in
Storage medium	Internal memory
Storage capacity	1500 Values
Automatic power-off from...to	2 ... 30 min.
Adjustable sound velocity	1000 ... 9999 m/s
Menu language	English, Chinese
Protection class (device)	IP52
(Rechargeable) battery	3 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Performance	4,5
Operating conditions	0 ... 40 °C , 0 ... 90 % RH
Storage conditions	0 ... 40 °C , 0 ... 90 % RH
Dimensions (L x W x H)	168 x 87 x 35 mm
Weight	230 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 464902 0
info@pce-instruments.co.uk