ULTRASONIC FLAW DETECTOR

PCE-UFD 50



- **Single or dual probe measurement**
- **AVG and DAC evaluation methods**
- **Sound velocity 1000 ... 15000 m/s**
- **Low weight**
- **TFT colour display**
- **USB interface and software**
- **Memory for up to 100 data records**

The material thickness meter is used for non-destructive material testing. When testing with the material thickness meter, ultrasonic waves are sent through the test object using a probe. The ultrasound is reflected and scattered at interfaces of different materials with unequal density and wave impedance. After determining the transit time of the ultrasound through the test object, weld seams can be tested, wall thicknesses measured and component defects localised with the ultrasonic testing device.

With adjustable frequencies between 0.5 ... 20 MHz and sound velocities between 1000 ... 15000 m/s, measurements can be carried out in steel in the range between 0 ... 10000 mm. DAC and AVG evaluation methods, display and probe delay, attenuation and amplification functions, export and report generation functions as well as numerous other setting options make non-destructive material testing with the material thickness meter considerably easier. The tester has a video recording of the screen. The software can then be used to call up the data and create a report. The setting parameters can be changed using the rotary knob. The 5.7-inch colour display provides a clear presentation of the test results.

The ultrasonic tester is a powerful measuring device that has been designed for appropriate tests. Robust and ergonomic design enables use under industrial conditions.

Specification

Material thickness	
Measuring range up to	0 ... 10000 mm
Resolution	1 mm
Pulse shift	
Measuring range up to	-20 ... +999,9 µS
Resolution	0,1 µS
Pulse shift	
Measuring range up to	1000 ... 3400 µS
Resolution	1 µS

General technical data	
Measuring functions	Pulse echo, Send-Receive
Units	mm
Frequency	0.5 ... 20 MHz
Display Typ	TFT-Color Display
Display size	5,7 Inch
Storage medium	Internal memory
Storage capacity	100 Parameter
Data interface	Mini-USB, USB A
Sensor	Ultrasound
Amplification range	130 dB
Adjustable speed of sound	1000 ... 15000 m/s
Menu language	English (US), Chinese
Protection class (device)	IP30
Power supply	12.6 V / 2 A
Connector type	Earthing contact plug
Battery capacity	4500 mAh
Operating conditions	-10 ... 50 °C , 20 ... 90 %RH
Storage conditions	-10 ... 50 °C , 20 ... 90 %RH
Dimensions (L x W x H)	240 x 160 x 50 mm
Weight	1130 g