

## **PT-UTGM Material Thickness Meter**

# Material Thickness Meter with adjustable acoustic velocity and sensitivity / data logger for 100.000 data and USB interface / fast-measuring-mode / automatically and permanent self-calibrating

The Material Thickness Meter PT-UTGM is an ultrasonic speed measuring device for detecting material thickness and wall thickness. Included in delivery with the Material Thickness Meter is a 5 MHz probe. This cover nearly 95 % of all possible applications. Therefore the use of the other probes of the Material Thickness Meter is not necessary. The Material Thickness Meter with the adjustable ultrasonic speed is used for accurate measurements of low carbon steel and carbon steel also aluminum, titan, plastics, ceramic, glass, ... and many other materials. The Material Thickness Meter also offers the option of accurate material thickness measurements of coated materials. Because of his multiple echo it is possible to diagnose cursorily coatings. The Material Thickness Meter offers an adjustable sensitivity, you also can diagnose PE-coated steel tubes of its material thickness. The measured data can be stored in the device and transferred by the optional software-kit to a PC. The data also can be transferred to a processing program, e.g. MS Excel. Another advantage of the Material Thickness Meter PT-UTGM is that its menu is available in several languages, e.g. German, English, Spanish, Italian, French, ... The software will be delivered in your national language when the device is ordered. If there are any questions about this Material Thickness Meter, please have a look at the technical specification below or call: + 44 (0) 2380 98703 0. Our technicians and engineers will gladly advise you in all thickness meters and all products in the field of measuring instruments, laboratory equipment, regulation and control and scales and balances of PCE Instruments Ltd.





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### PT-UTGM1-E Standard

- automatically and permanent self-calibrating
- easy menu navigation
- lighted display
- fast-measuring-mode
- data logger for 250 measurements

#### Technical Specifications Model

Data logger

Hi Contrast LCD Display Interface Mode Measurement range Sensor head (incl.) Resolution Surface temperature Calibration Accuracy Measurement unit Ultrasound velocity Measurement rate

Alarm function

Data output Power Dimensions Weight



Shipment of the Material Thickness Meter PT-UTGM.

#### PT-UTGM3-E Advanced

- color LCD-display
- scan function
- data logger for 100.000 measurements
- Bluetooth interface
- photo upload

PT-UTGM1-E Standard PT-UTGM3-E Advanced 250 measurements 100.000 measurements Monochrome Color USB USB / Bluetooth Eco simple Eco multiple 2.50 ... 125 mm 2.50 ... 60 mm 5 MHz, diameter of the probe~ 13 mm 0,01 mm - 10 ... +50 °C 2.5 / 5 / 7.5 / 10 and 12.5 mm ± 0.03 mm mm/inch (to choose) 1250 ... 9999 m/s normal mode: 3/s scan mode: n/a when the selected lower and upper levels are exceeded USB / Infrared 3 x 1.5 V AA batteries 146 x 61 x 28 mm 165 g (with battery)



The Material Thickness Meter PT-UTGM in application.

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#### Scan mode



The PT-UTGM Material Thickness Meter can be used in both normal and scan mode (only for the standard model). With the scan mode it is possible to measure large material areas. The PT-UTGM Material Thickness Meter can save up to 250 measurement values in its internal memory (with a measurement rate of 20 values every second).

It is very important to use the coupling gel properly during the measurement; in the normal and scan mode. This ensures a good contact with the sensor and protects the surface.



The upper image shows the use of the PT-UTGM Material Thickness Meter in a ship propeller.



A recalibration of the Material Thickness Meter can be performed with the aid of a calibration block.

#### **Delivery content**

- 1 x PT-UTGM1-E or PT-UTGM3-E material Material Thickness Meter with an extern probe
- 1 x sensor head (5 MHz sensor) with 1.2 m cable
- 3 x AAA batteries
- 1 x protective rubber holster with belt clip
- 1 x bottle of coupling gel (250 ml)
- 1 x USB cable
- 1 x carrying case
- 1 x user manual

#### Additional accessories



Coupling gel



Software



Calibration block



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Similar products to the Material Thickness Meter PT-UTGM:

- <u>PCE-TG 100 Material Thickness Meter</u> (measurement of wall thickness with a tester for plastic and metal)
- <u>PCE-TG 110 Material Thickness Meter</u> (for wall thickness tests with tester up to 400°C for steel pipes)
- <u>PCE-TG 120 Material Thickness Meter</u> (with a measurement range of 1.0 mm to 30.0 mm and a resolution of 0.1mm)

:02

- PCE-TG 200 Material Thickness Meter

(Material Thickness Testers with memory of 4,000 readings, data cable and software)

