Material Thickness Meter

PCE Americas Inc.
711 Commerce Way
Suite 8
Jupiter
FL-33458
USA
From outside US: +1
Tel: (561) 320-9162
Fax: (561) 320-9176
info@pce-americas.com

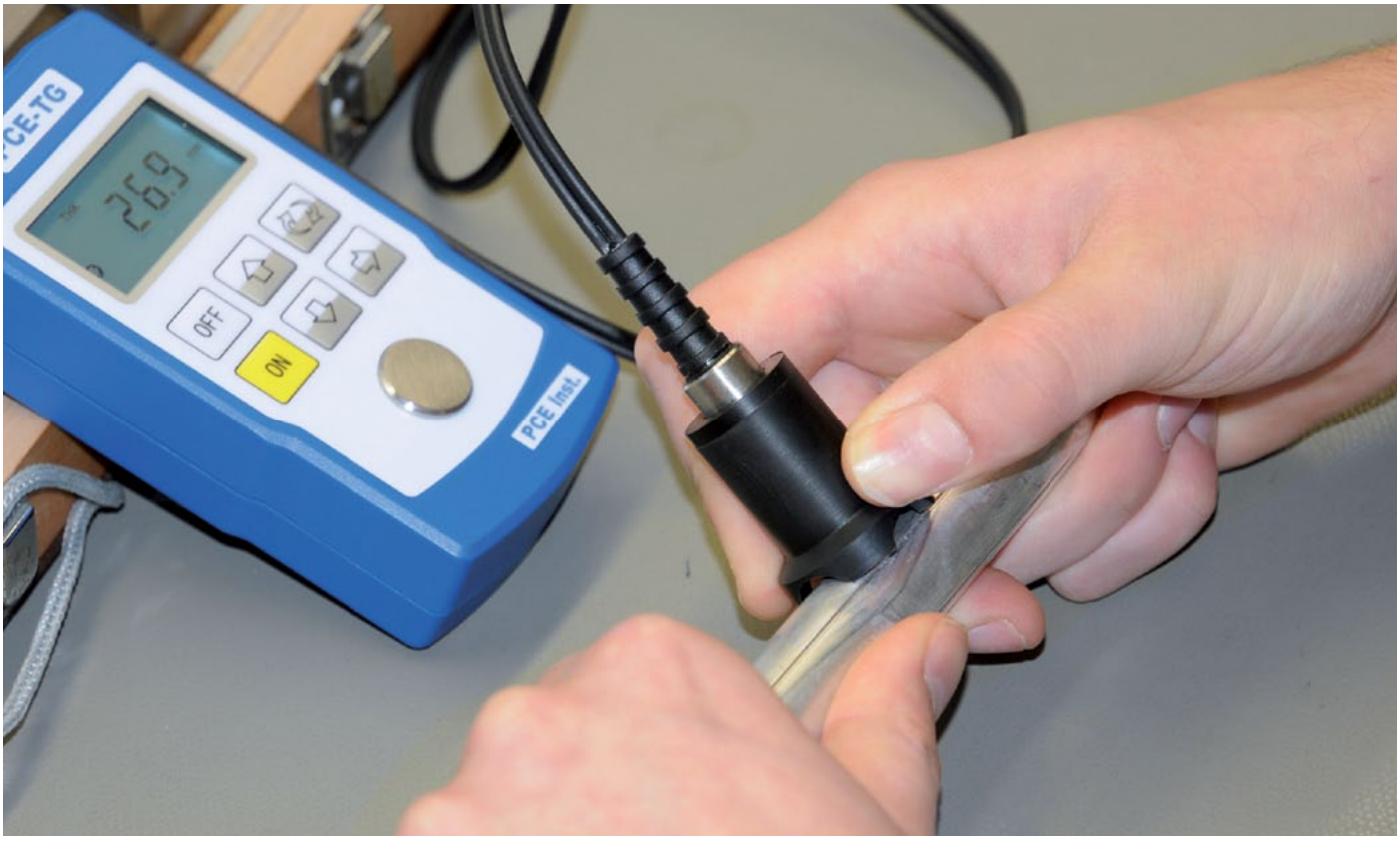
PCE Instruments UK Ltd.
Units 12/13
Southpoint Business Park
Ensign way
Hampshire / Southampton
United Kingdom, SO31 4RF
From outside UK: +44
Tel: (0) 2380 98703 0
Fax: (0) 2380 98703 9
info@pce-instruments.com

www.pce-instruments.com/english
www.pce-instruments.com

Basics

Each material in production or operation has got different features and characteristics. Thickness is one of them. No matter, what it goes about – plastics, rubber, metals – the thickness of the material can and should be measured. It is especially important when it goes about flaws and damages of the materials, which happen not only outside, but inside, i.e. corrosion, erosion. A Material Thickness Meter is exactly the gauge to use for that purpose. Depending on different kinds of the material different thickness measuring gauge can be used. Some are good for measuring very thin materials, like, i.e. plastic bottles, some are suitable for measuring corroded metal in pipes, some measurements can be also carried out on hot surfaces or for very thick materials.

A Material thickness meter is easy to operate; nevertheless, it can be used for serious measurements in industrial production, to check the aircraft condition, tanks etc.



The ultrasonic Material Thickness Measuring device is very convenient for measuring the inside thickness of the material, especially when the material is subjected to corrosion. With the help of the transmitter the sound is sent into the material making it possible to conduct the measurements inside the pipes without cutting them.

Certain thickness meter are pre-calibrated only for one material and are perfect if the user needs to check the thickness of the same material for a long period time. On the other hand, there are thicknesses meters available that can be programmed for several velocities, and that makes it possible to measure thickness of different materials with the help of one device. The Thickness meters programmed for the high number of measurements per second are ideal for measurement inside the pipes, helping to find out the thinnest or the most damaged place when it is impossible to detect them visually. The advantage of such thickness meter is also that it allows inspecting large areas in a relatively short time.

Modern thickness Meters are equipped with many up-to-date elements, such as control unit, transmitter and transducer, display, resistant probe, USB-port etc, which allows recording, saving analyzing and processing lots of measurement data, connecting device to PC, and guarantees long-term use and makes the devices reliable.