

Measuring wall thicknesses correctly with the wall thickness gauge PCE-TG 300

With a wall thickness gauge, the wall thickness of different materials such as metals, plastics, glass or resins can be measured non-destructively using ultrasound.



PCE Instruments has an innovative wall thickness gauge called PCE-TG 300 in its product range. This meter can be used for metals, plastics, ceramics, epoxy resin, glass and any homogeneous material. Together with the right optional sensor, the wall thickness meter PCE-TG 300 can even be used to measure in angled or hard-to-reach positions. Sensors for various special applications can be selected from the optional accessories offered for the ultrasonic wall thickness gauge. In order to make a measurement as precisely as possible, first of all the sound velocity suitable for the object to be measured must be set in the ultrasonic echo-echo wall thickness gauge. The sound velocity can be set in steps of 1 m/s. The test head of the

sensor is placed on the material to be measured and an ultrasonic signal is emitted. Depending on the material, the wall thickness meter will determine the echo of the sample and thus its wall thickness. As the echo-echo material thickness gauge features the possibility of a multi-point calibration, it is even possible to make wall thickness measurements when the material of the sample is unknown.

With the PCE-TG 300, thickness measurements within a range of 0.65 ... 600 mm can be made. Even wall thicknesses of very small objects can be measured at a max. resolution of 0.001 mm. The measured data can be viewed directly on the clear TFT display and then saved to the internal memory and read out later via an optional software. The Bluetooth function allows the user to print the values measured for a certain project directly via a nearby printer that supports Bluetooth.



To find out more on this and other NDT test instruments, please go to

www.pce-instruments.com/english/measuring-instruments/test-meters/ndt-test-instruments-kat_162526.htm