

The Extended ECHOMETER 1073/1074-Family Opens New Areas of Application

From now on, the well-approved and reliable wall thickness gauges of the ECHOMETER series from KARL DEUTSCH are available also in instrument versions for sound velocity measurements on workpieces of known thickness. Furthermore, the ECHOMETER 1074 is also available in a special version as a wall thickness gauge with continuous data output. In contradiction to the method normally used for manual measurements – indication and output of one value per measuring location – this instrument produces wall thickness values continuously and sends them through the data interface as long as the probe is coupled to the workpiece.

ECHOMETER 1073 VS (Art.-No. 1073.101)

(Sound Velocity Gauge)

After the gauge is switched on, the probe is placed as usual on the 5 mm calibration block to calibrate both, probe and instrument. After the successful calibration, the thickness 5.0 (resp. .197 in the inch mode) is indicated. With the keypad, the thickness of the workpiece is entered. In all following measurements, the sound velocity appears on the display. Except this special function, this gauge has the same technical properties and operating principles as the regular ECHOMETER 1073.

Measuring range: 100 .. 19999 m/s

Measuring uncertainty above 20 mm thickness:

Gauge: < 0,1 % (for comparative measurements)

Total: < 0,5 % (for absolute measurements)



ECHOMETER 1074 VS (Art.-No. 1074.101) with Digital

Vernier Caliper (Sound Velocity Gauge)

After the gauge is switched on, the probe is placed as usual on the 5 mm calibration block to calibrate both, probe and instrument. After successful calibration, the thickness 5.0 (resp. .197 in the inch mode) is indicated. The thickness of the workpiece is measured with a digital vernier caliper and simply transferred from the caliper to the ECHOMETER. In the following measurements, the sound velocity occurs on the display. Of course, the thickness can also be entered with the keypad. Except the thickness measurement by the caliper, this instrument has the same technical properties and operating principles as the ECHOMETER 1073 VS.

Measuring range: 100 .. 19999 m/s

Measuring uncertainty above 20 mm thickness:

Gauge: < 0,1 % (for comparative measurements)

Total: < 0,5 % (for absolute measurements)

