

P/N: 2099382-6 Multiple Echo Ultrasonic Thickness Gauge with Datalogging



PRODUCT SUMMARY

The Portagauge® 6 multi echo ultrasonic thickness gauge is a highly accurate and reliable thickness gauge for measuring the thicknesses of various metals and hard plastics, with integrated datalogging. It is developed to meet BS EN 15317:2013 which is the standard for ultrasonic testing, characterisation and verification of ultrasonic thickness measuring equipment.

We strive to offer the highest quality instruments, built with exceptional quality materials in the UK and remain competitively priced in the market worldwide through our unique R&D position.

Some of the key advantages of Portagauge® 6 over our competitors:

- 1. Multi-echo capabilities, to ignore up to 20mm of coating, giving you the material's true thickness readings accurate to +/- 0.1mm.
- 2. Minimum thickness alarm functionality, providing an audible alert when thickness measurements drop below a user-set minimum value.
- 3. A-scan and oscilloscope trace functionality is included to assist your measurements, observe material condition and help verify correct return backwall echo to give you confidence in your measurements.
- 4. We have tested a wide range of materials, including various metals and hard plastics, and have created a built-in database in our Portagauge® 6 containing speed of sound data of 14 different materials pre-loaded in the unit, and an option to enter custom material sound speeds if required.
- 5. Built-in datalogging capabilities, with 4 MB of storage, allowing you to record up to 200,000 thickness measurements, along with the date and a unique, user-set identifier for the test.
- 6. For marine applications, it meets Classification Society requirements for marine thickness gauge measurement equipment and has an LCD backlight to allow working in dark, poor visibility spaces.
- 7. Battery life up to 12 hours continuous use on a standard 9V PP3 battery for easy replacement, with battery saving mode – turns off after 30 seconds of inactivity, or 24/7 operation when powered via the micro-USB port.
- 8. Technical support and advice available throughout the lifetime of the unit and we are here to help you with your application.

SPECIFICATIONS

MAIN UNIT DIMENSIONS	168mm (L) x 82mm (W) x 31mm (D)
WEIGHT	360g (with batteries)
MEASURING RANGE	1.50mm – 100.00mm
MATERIAL TYPES	Most metals and plastics, built-in database of 14 common materials, and an “Other” option for custom materials with custom sound speed
ACCURACY	+/- 0.1mm
RESOLUTION	+/- 0.01mm
MEASUREMENT UNITS	Metric (mm) and Imperial (inches)
MEASUREMENT MODE	Multiple Echo (ignores paint coating up to 20mm thick)
DATALOGGING	4MB internal storage for datalogging, capable of recording up to 200,000 measurements, including date, a user-set identifier, and thickness measurement and can be downloaded to a PC via the micro-USB port.
FREQUENCY	2.5 MHz, 5.0 MHz
DISPLAY	Full 128 × 68-pixel graphics with backlight for working in poor visibility conditions
ADDITIONAL FEATURES	• Custom material sound velocity input enables users to test custom materials • A-scan functionality to observe material condition and verify correct backwall echo • Oscilloscope trace to assist in performing a good measurement • Minimum thickness alarm, audible alert when thickness measurements drop below user-set minimum value
POWER SUPPLY	9V PP3 battery, up to 12 hours continuous use with auto shutdown after 30 seconds of inactivity, or 24/7 continuous operation when powered via the micro-USB port
IP RATING	IP 65 enclosure
SENSOR TYPE	Dual element with 0.9m LEMO-00 cable
SENSOR OPTIONS	• P/N: 2099382-PG00 (2.5 MHz, 14mm diameter sensor) – Most robust and reliable for thickness measurements of flat surfaces and pipes above 50mm diameter • P/N: 2099382-PG01 (5.0 MHz, 10mm diameter sensor) – For measuring pipes above 25mm diameter • P/N: 2099382-PG02 (5.0 MHz, 6mm diameter sensor) – For measuring pipes above 15mm diameter
CERTIFICATIONS	• CE • Meets marine classification society requirements for marine thickness gauging inspection equipment • Coltraco is ISO 9001:2015 and ISO 14001 approved
WARRANTY	Main Unit: 3 years, Sensors: 1 year Lifetime customer support
PACKAGE CONTENTS	• 1 x Portagauge® 6 Main Unit • 1 x 2.5MHz, 14mm diameter Dual Element Sensor • 1 x 5mm Metal Test Block • 1 x Ultrasonic Couplant • 1 x Robust Carrying Case • 1 x User Manual • 1 x Calibration Certificate