

## Portagauge® III

## Technical Specification

TYPE: Portable Ultrasonic Thickness Gauge

**FUNCTION:** for measuring thickness and corrosion of fire cylinders, ship hulls, bulk heads, pressure vessels, chemical equipment, boilers, oil storage

tanks, and industrial pipe work amongst others **PART NUMBER:** 2099382, **NSN:** 5520-99-382-6449

#### **INTRODUCING THE FEATURES:**

- Simple set-up and ease of operation with digital processing
- Long term reliability and battery life, light weight, compact and reliable
- Accuate measurement in steps of 0.1mmfrom 1.5mm-99.9mm
- Suited for a wide range of industrial applications



In over 20 years of designing and manufacturing, Coltraco have supplied robust general-purpose thickness gauges to complement our range of equipment utilizing Ultrasonic Technology across the spectrums of solids, liquids and air. In 2012, Coltraco partnered with a well-respected UK OEM of thickness gauges to design our latest model **Portagauge® III.** 

This is designed with ease of use, simplicity and longevity of life as key characteristics. It is reliable and accurate and based on a technology with a long history of success in the field, combined with the most up to date designs and aesthetics. **Portagauge® III.** is a handheld, simple digital ultrasonic thickness gauge for a wide range of applications across the array of our market sectors.



#### **APPLICATIONS:**

- Fire Systems
- Marine operation & maintenance
- Onboard vessels, rigs, platforms
- Pressure vessels and storage tanks
- Ship hulls/decks
- Bulkheads/flanges
- Rails/wheels
- Casting/Steeplejacks/Boilers
- Pipes/Tubings
- General Maintenance

#### **RECOMMENDED FOR:**

- Steel/ Stainless Steel
- Cast Iron
- Aluminium
- Copper
- Brass
- Zinc
- Quartz
- Glass/PVC
- Poleythyience
- Grey Cast Iron

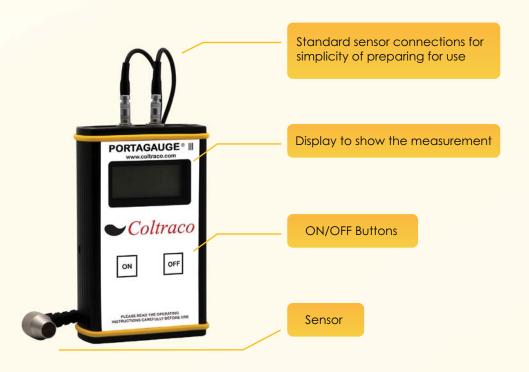


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# **Technical & Operation**

## HOW IT WORKS: digital ultrasonic thickness gauges use two transducers that both function as ultrasonic transmitters and receivers

- The transmitting sensor emits an ultrasonic pulse into the material being measured eg. Cast iron
- 2. The pulse returns as an echo to the receiving sensor.
- The elapsed time between the two sensors shows how thick the material is.The longer the time the thicker the material and by working out the speed of the
- 4. signal the gauge works out the thickness.



### **HOW TO USE THE PORTAGAUGE®:**

- 1. Ensure that the surface being tested is clean free of debris.
- 2. Place a small amount of gel on the surface to be tested.
- 3. Turn ON the Unit and connect the sensor. Numbers will stabilise at 0.
- 4. Place the sensor on the surface and hold.
- 5. Observe the digital reading, which will indicate in millimetres the thickness of the surface being tested













# Portagauge® III

## After Sales Support

In The Box: Portagauge® comes in a ready-to-gopackage complete with all items required to carry out thickness measurement: carrying case, sensor set, cables and accessories, instruction manual.



Different types of sensor are available for different applications

**Dimensions** 

Weight

## **Support & Customer Service**

- 1 year warranty
- Support for the life-time of the equipment via telephone/email
- Guaranteed against defects in materials & workmanship
- See terms and conditions for details
- For your Technical Queries or Sales Enquiries and Quotations please email sales@coltraco.co.uk or call +44 207 629 8475

# Thickness Measuring Range 1.5 mm – 99.9 mm Accuracy +/- 0.1 mm Sound Velocity 500 – 9000 m/s Lower Limit Steel Pipes 1.5 x 2.0 mm, 20 x 3.0 mm determined by the transducer Resolution 0.1 mm Power Supply - Battery PP3 Alk (replaceable) – Average 25,000 plus measurements per battery low charge indication Operating Conditions 0-4C / 10-90& RH

140 x 80 x 30mm

300 grams

**TECHNICAL SPECIFICATIONS TABLE** 

