



PORTAGAUGE® 3

OPERATING INSTRUCTIONS

Operation: Plug the sensor into the Portagaugé® 3, aligning the red marks. Turn it on by pressing the ON switch. Place a small amount of ultrasonic gel on to the sensor face. Press the sensor face with medium pressure onto the 5mm calibration shim provided. If the reading is not exactly 5.00mm calibrate as described below. If the reading is correct, proceed to test as normal, using a small amount of ultrasonic gel if required to ensure a good signal. The unit has a one minute power cut off to save battery power.

Calibration: Standard meters are calibrated to read thickness in mild steel. The meter will give readings on most other metals and on many non-metals. These readings can be converted to actual thickness by use of the appropriate conversion factor which is the ratio between the speed of sound in the material being tested and the speed of sound in mild steel. Conversion factors for various materials are available on request and a short list is included overleaf in this manual. Meters can be supplied calibrated for other materials.

Small adjustments of the calibration can be made as follows:

- a. Place probe on the 5mm calibration shim provided and insert a small screwdriver into the small hole on the left hand side of the meter
- b. Engage the slot in the preset control and rotate until the meter reads correctly. Avoid excessive pressure on screwdriver.

Battery: Replacement necessary when “low bat” shows on display
Lever off both screw covers on bottom of unit, unscrew and replace with 9V battery

Testing Pipework: For best results keep central division of probe at 90 deg to axis of pipe

Service and Maintenance:

- Keep meter clean, do not allow it to become covered in oil or grease or to become wet.
- Avoid excessive rough handling.
- Should the meter malfunction, return to Coltraco Repair Dept. for servicing.
- The probe is the part most likely to suffer from wear and tear. It is recommended that a spare probe be kept in reserve, particularly if essential work is being done.

Warranty: The Portagauge 3 unit and sensor are covered by our no quibble 12 month warranty, provided that the electronic unit has not been opened, and that the items have been used in accordance with the instructions and not abused or tampered with.

CONVERSION FACTORS FOR OTHER MATERIALS:

Stainless Steel: multiply reading by 0.96
Aluminium: multiply reading by 1.1
Copper: multiply reading by 0.80
Brass: multiply reading by 0.73
Cast Iron: Factor varies from 0.7 (coarse grain)
To 0.9 (fine grain)
Perspex: Multiply reading by 0.45

NB Factors given are averages – a cross check on an accurately known thickness is always advisable

In the event of any query, contact SDi Fire service department,
Email: service@sdifire.com, telephone: (732)-751-9266, website: www.sdifire.com