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TOUCHSTONE 2

The TOUCHSTONE 2 coating thickness gauge uses the magnetic properties of the substrate material to determine the coating thickness i.e. the distance the sensor face is held off the steel by the coating.

The hall effect sensor provided with the TOUCHSTONE 2 will measure a wide range of non-magnetic coatings on ferrous substrates including; paint, plastic, epoxy, stainless steel, galvanized zinc, aluminum and tin.



FEATURES

- Highly accurate hall effect sensor
- Measures any non-ferrous coating
- Measures up to **0.315" (7.9mm)** of coating
- Simple calibration and operation

APPLICATIONS

- Civil engineering
- Petrochemical
- Offshore
- Automotive

SPECIFICATIONS

Coating range:	0-0.315 inches (0 – 7.9mm)
Applications:	Any non-magnetic coating on a ferrous material
Temperature range:	+14°F to +104°F (-10°C to +40°C)
Units of Measurement:	Switchable between microns and thousandths of an inch
Resolution:	0.001" (10 microns)
Accuracy:	± 1% (±10microns up to 1mm - then better than 1%)
Display:	0.50" (12.5mm) high 3½ LCD Display with micron/thou indicator. Low battery indicator
Auto shut off:	After 3 minutes inactivity
Battery life:	40 hours nominal with a size AA (PP3) alkaline battery
Dimensions:	5.75"H x 3.16"W x 1.58"D (145H x 80W x 40mm D max.)
Weight:	5¼ oz. (150 grams)

INSTRUCTIONS

The **Touchstone 2** is suitable for use only on coatings applied to a ferrous substrate and uses the magnetic properties of the substrate material to determine the coating thickness i.e. the distance the sensor face is held off the steel by the coating.

The Touchstone 2 will measure a wide range of non-magnetic coatings including paint, plastic, epoxy, stainless steel, galvanized zinc, aluminum and tin up to 8mm (minimum coating thickness 20 microns) Accuracy ±10 microns up to 1mm then ±1% or better.



Powers up the gauge and initiates a brief test sequence displaying all screen characters.



Toggles between metric and imperial units of measurement. When imperial (English) units is selected a dash appears to the left of the digits displayed.



This function calibrates the sensor / gauge combination. It should **only** be performed when a replacement sensor is connected to the gauge. To access this function hold down the **Set Up** key and press **ON**. The sensor must be in contact with the 5mm steel block supplied. The gauge display will show **0.00** for approximately 5 seconds. The last digit will increment to a value less than **0.10** and then display **0.00**. Set up is now complete. Follow the operations outlined below for zero and cal Range.



Performs local Zero to compensate for permeability changes. Zero may also be used when measuring on substrates of different thickness. Place the sensor on an un-coated area of steel. Wait for the display to settle to its lowest value and press Zero.



Used to calibrate the working range of the gauge using the shim provided. Place the 5mm shim on an un-coated area of steel, (having first performed the zero operation above). Place the sensor on the Aluminum shim Press Cal Range, this will correct any inaccuracy due to change in substrate material or thickness.