

ULTRASONIC THICKNESS GAUGE ExScan1000



PURPOSE

The ExScan1000 is a precision Ultrasonic thickness gauge. Based on the Pulse-Echo principle, the ExScan1000 is capable of measuring the thickness of various materials with accuracy as high as $\pm .001$ inches, or $\pm .01$ millimeters. The principal advantage of ultrasonic measurement over traditional methods is that ultrasonic measurements can be performed with access to only one side of the material being measured.

DISTINCTIVE FEATURES:

- Metal case.
- Small-sized portable thickness gauge, which operates on two "AA" batteries (alkaline) for 200 hours.
- Easy and intuitive operation.

APPLICATION:

- Corrosion & Pitting, Tube & Pipe, Tanks, Boilers, Glass, etc.

ExScan1000 SPECIFICATIONS

PHYSICAL

- **Weight** _____ 10.58 oz (300g)
- **Size** _____ 4.62W x 2.34H x 1.36D inch (117.5 W x 59.6H x 34.6D mm)
- **Operating Temperature** _____ - 4 to 120 °F (-20 to 50 °C)
- **Case** _____ Extruded aluminum body/nickel plated aluminum end caps.
- **Keypad** _____ Sealed membrane, resistant to water and petroleum products.
- **Power Source** _____ Two "AA" size, 1.5 volt alkaline or 1.2 volt NiCad cells.
200 hours typical operating time on alkaline, 120 hours on NiCad.
- **Display** _____ FSNT/POSITIVE Liquid-Crystal-Display,
size 1.2 x 1.0 inch (30 mm x 25 mm)

MEASURING

- **Range** _____ .025 to 19.999 inches (0.63 to 500 mm)
- **Resolution** _____ .001 inch (0.01 mm)
- **Accuracy** _____ $\pm .001$ inch (0.01 mm), depends on probe material and conditions
- **Sound Velocity Range** _____ .0492 to .3930 in/ μ s (1250 to 10000 m/s)

