

# 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/ $\mu$ s (1250 to 10000 m/s)

