

# ULTRASONIC THICKNESS GAUGE

Ultrasonic thickness measurement is a method of performing non-destructive measurement (gauging) of the local thickness of a solid element. This type of measurement is typically performed with an ultrasonic thickness gauge which adopts ultrasonic measuring principle, and is controlled by micro processor, provides quick and precise measurement of thickness for most of industrial material.

## ADVANTAGES :

- > Non-destructive technique-
- > Does not require access to both sides of the sample
- > Engineered to cope with coatings, linings, etc.
- > Very high accuracy
- > Does not require laboratory conditions

## B2 – General purpose Ultrasonic Thickness Gauge)

## B6 - C Ultrasonic Thickness Gauge with A-Scan and B-Scan

### PURPOSE :

Thickness measurement:

- > of products from metals and their alloys;
- > under protective coatings;
- > of non-metallic products (plastic, ceramics and other).

### FEATURES :

- > Metal thickness measurement under coating (in ECHO-ECHO mode and PULSE-ECHO-COATING mode);
- > Coating thickness measurement (in PULSE-ECHO-COATING mode)
- > Colour display (TFT 2.4", 320 × 240)
- > ECHO signal graphic display in A-scan mode and B-scan
- > High Memory
- > Automatic probe recognition
- > High accuracy and reliability
- > Wide range of wear resistant and dual crystal transducers
- > High Temperature Measurement



### TECHNICAL PARAMETERS:

Parameters	Model: B6-C	Model: B2
Measuring Range	0.25 mm - 300 mm	0.5 -200 mm
Measurement Resolution	0.01 mm/0.1 mm	0.01 mm/0.1 mm
Measurement Accuracy	±(0.005T + 0.05) in range of 0.25 to 10.0 mm; ±(0.01T + 0.1) in range of 10.0 to 300 mm	±(0.005T + 0.05) in range of 0.5 mm to 100.0 mm ±(0.01T + 0.1) in range of 100.0 to 200 mm
Coating Layer	2 mm (up to 20 mm Polyethylene Layer by using special Probe)	Not available
High Temperature Application	Up to 350 °C	Up to 350 °C
Probe Operating Frequency	2.25Mhz/ 2.5 Mhz/5 MHz/10 MHz/15 Mhz	2.5 MHz/5MHz/10MHz
Speed Of Ultrasound Propagation	1 000 -9 999 m/s	1 000 -9 999 m/s
Showing ultrasonic signals	A-Scan & B-Scan	Not Available
Memory (A -Scan & B -Scan)	500	Not Available
Memory Conventional Data	100000	500