

# Ultrasonic Thickness Gauge



- Ultrasonic Thickness measurement is non destructive method of measurement and particularly, suitable for components having access only from one side, where conventional gauge cannot be used.
- It is especially useful in measurement of thickness of pipes, pressure vessels. We have automated systems for online thickness measurement in pipes or plates and for applications like corrosion monitoring, bond testing, lamination detection, material characterization.
- The testing is fast, reliable and with high accuracy.
- The principle used is known as pulse-echo technique.
- Ultrasonic waves are passed into the material which reflect back from back surface of material.
- The instrument measures the transit time of wave and gives thickness by multiplying with sound velocity in the material.
- Velocity input is given by initial calibration which is done with known thickness reference block.

## Ultrasonic Thickness Gauge UX 4510

### Technical Specifications

Material	Metals, plastics, glass etc. (with suitable probe)
Range	1.2mm to 300mm* (in steel- flat )
Keypad	Sealed, colour coded key pad
Accuracy	±0.1mm upto 25mm, ±1% above 25mm
Display	LCD with backlight, display for thickness, velocity, low battery, memory
Memory	9960 readings
Battery	Li-ion Re-chargeable battery 3.6V
Charger	External charger, 230V AC supply
Ambient Temp	0° to 50° c
Weight	200 gm
Case	Weather resistant moulded plastic
Communication	Micro C USB cable for memory data transfer to PC
Ranges	Probe 5MHz range between 1.2 to 200mm Probe 2.5MHz range between 3 to 300mm



**For pipes also (minimum  $\phi$ 25mm)**

## Main Features UX 4510

- Light weight, easy to use.
- Thickness measurement possible for one side access components.
- Upper and Lower Thickness Limit.
- Microprocessor controlled with facility to store calibration and measured data.
- Setting alarm for our of sets limits.



## Accessories

\* Standard set comprises of:

- Calibration block (steel)
- Probe  $\phi$  10.00mm, 5 MHz
- Software CD, Micro USB cable
- Batteries
- Charger

## Ultrasonic Testing & Inspection Solutions

We have successfully been catering to the needs of various industries.



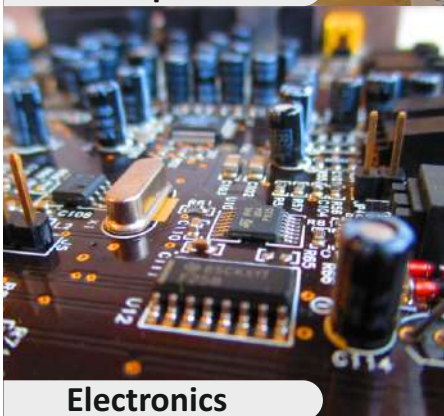
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