

High Accuracy Ultrasonic Thickness Gauges

ULTRASONIC THICKNESS GAUGES

- * Ultrasonic Thickness measurement is a non destructive method of measurement and particularly suitable for components having access only from one side, where conventional gauges can not be used.
- * Thus it is useful in measurement of thickness of pipes, pressure vessels etc. 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.

UX 4510

TECHNICAL SPECIFICATIONS

- * **Material:** Metals, Plastic, Glass etc (with suitable probe).
 - * **Range:** 1.2 mm to 300 mm* (in steel - flat)
 - * **Probes:** Dual Crystal - (TR).
 - * **Key pad:** Sealed, Colour Coded Key Pad.
 - * **Resolution:** 0.1mm. (Display selectable between 0.1 & 0.01)
 - * **Calibration:** One Step Calibration.
 - * **Accuracy:** +/- 0.1mm upto 25mm, +/- 1% above 25mm
 - * **Display:** LCD with backlight. Display for Thickness, Velocity, Low Battery, Memory.
 - * **Memory:** 9960 Readings.
 - * **Battery:** NiMH Re-chargeable Battery 3.6 V.
 - * **Charger:** External Charger, 230 V AC supply.
 - * **Ambient temp:** 0° to 50° C.
 - * **Weight:** 200 gm.
 - * **Case:** Weather resistant moulded plastic.
 - * **Communication:** RS-232 for memory data transfer to PC
- *Range depends on material & probe.



STANDARD ACCESSORIES

Standard set comprises of:

Batteries, Charger, Leather cover,
Calibration block (steel), probe Ø 6.00mm, 4 MHz

UX 4503/4504

TECHNICAL SPECIFICATIONS

★ Test Mode	First / First-Second Echo
★ Range (mm) Steel (flat)	2.00 - 100*
★ Measurement Unit	mm
★ Resolution (mm)	± 0.01**
★ Calibration Accuracy (mm)	± 0.01
★ Velocity Range (max.) m/s	9999
★ Velocity Calibration	Soft Touch Key Pad
★ Display	LCD (4503) / LED (4504)
★ Operating Temperature	0° - 50° C
★ Power Supply	7.2 V DC
★ Zero Adjustment	Soft Touch Key Pad
★ Dimension (mm)	245 x 235 x 90
★ Weight (incl. Battery)	2.00 Kgs
★ Standard Accessories	a) Transducer Single Ø12.5mm, 5MHz b) Probe Cable Lemo 00-BNC c) Battery NiCd (D Size)

* 1 - 300mm with special probes

** ± 0.001mm for range below 10mm

Special probes offered with above for casting & materials like plastic, glass etc.

Models - 4503 / 4504 / 4510 are microprocessor based with calibration / measurement data storage facility, compatibility with PC, RS-232 output, direct read-out of thickness & velocity.

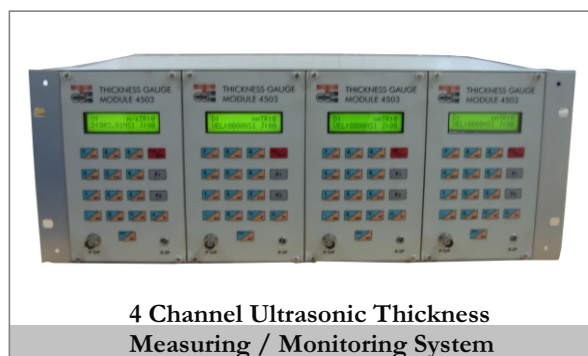
On line continuous thickness monitoring system available for plates/pipes with computer compatibility.



UX 4504



UX 4503



4 Channel Ultrasonic Thickness Measuring / Monitoring System

NOTE: Technical specifications are subject to change without prior notice, due to continuous upgradation.

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