

Ultrasonic Thickness Measurement

Portable Testers

TT300A High Spec Programmable Thickness Gauge



Features:

- Readings in mm or inch (selectable)
- Automatic probe zero adjustment
- 4mm test piece on instrument face
- Single or two point calibration
- Minimum thickness mode
- Large 128 x 64 pixel LCD display
- Bi-directional RS232 interface
- Out of limit alarms
- Low battery indicator and auto-power off
- Optional software or portable printer

Specification:

Range:	0.75 ~ 300.00 mm (probe and material dependant)
Tolerance:	±0.5% +0.01mm
Velocity:	1000 m/s ~ 9999 m/s
Resolution:	0.1 or 0.01 selectable
Memory:	500 readings

C/w carry case, rubber boot, 5MHz and 7MHz transducers, couplant, batteries and manual

TT130 High Resolution Thickness Gauge

Features:

- Readings in mm
- Can store five pre-set sound velocities
- Automatic probe zero adjustment
- 4mm test piece on instrument face
- Single point calibration
- 4 digit LCD display
- Auto-power off
- Low battery and coupling status indicators

Specification:

Range -	1.00 ~ 225.0 mm (probe and material dependant)
Tolerance:	±1% +0.1mm
Velocity -	1000 m/s ~ 9999 m/s
Resolution -	0.01 up to 99.99 0.1 from 100.0 upwards
Memory -	10 readings

C/w Two 5MHz transducers (straight and 90°), carry case, couplant, batteries and manual



TT100 Basic Economical Thickness Gauge



Features:

- Readings in mm
- Can store five pre-set sound velocities
- Automatic probe zero adjustment
- 4mm test piece on instrument face
- Single point calibration
- 4 digit LCD display
- Auto-power off
- Low battery and coupling status indicators

Specification:

Range -	1.0 ~ 225.0 mm (probe and material dependant)
Tolerance:	±1% +0.1mm
Velocity -	1000 m/s ~ 9999 m/s
Resolution -	0.1mm
Memory -	10 readings

C/w Two 5MHz transducers (straight and 90°), carry case, couplant, batteries and manual

Guideline to Standard Velocity in Materials (may vary)

Metals : (ultrasonic speed in m/sec)

Non-metals : (ultrasonic speed in m/sec)

Aluminium	6260	Nickel	5630	Acrylic Resin	2730	Polyamide	2380
Brass	4640	Platinum	3960	Aluminium Oxide	8700	Polyethylene	1900
Cast Iron	4500	Silver	3600	Ceramic	5631	Polyurethane	1900
Copper	4700	Steel, mild	5900	Diamond	17500	Polystyrene	2400
Cadmium	2800	Steel, low carbon	5850	Epoxy Resin	2650	Porcelain	5600
Chromium	6200	Steel, stainless	5790	Glass	5440	PVC	2400
Gold	3240	Tin	3230	Ice	3980	Rubber (butyl)	1900
Inconel	5720	Titanium	6070	Neoprene	1600	Rubber (soft)	1450
Iron	5900	Tungsten Carbon	5650	Nylon	2620	Rubber (vulc.)	2300
Lead	2200	Tungsten	5400	Paraffin Wax	2200	Silicone Rubber	948
Manganese	4700	Zinc	4200	Perspex	2850	Teflon	1350
Magnesium	6310	Zirconium	4650	Plexi Glass	2700	Water (20°C)	1480

A.W.R. SMITH Process Instrumentation CC

PO Box 449 Pinegowrie 2123 tel: 011 782 7279 fax: 011 782 6840 sales@instruments.co.za

www.instruments.co.za