Ultrasonic Thickness Gauges

Pipelines & Tanks

Tritex ultrasonic thickness gauges are ideally suited for the inspection of pipelines and tanks. The rugged designs not only look good but are also durable. All probes have **IPR (Intelligent Probe Recognition)**, which automatically adjusts settings in the gauge at the same time as transmitting recognition data - the result is a perfectly matched probe and gauge for enhanced performance. That's not all; the **AMVS (Automatic Measurement Verification System)** ensures only true measurements are displayed, even on the most heavily corroded metals. Housed in purpose designed cases and incorporating **Triple Echo** and **Coating Plus+** to completely ignore coatings, Tritex Multigauges are the choice for the future...

A choice of two…

Multigauge 5500

The **Multigauge 5500** is supplied with a belt clip for hands free use when climbing on staging, ladders, scaffolding or when accessing by rope during tank surveys. The easy to use keypad allows operator interface whilst the bright LED display can be used in all light conditions, whether inside holds, cargo tanks or out on deck.

Multigauge 5600

The **Multigauge 5600** is a simple, robust ultrasonic thickness gauge designed for most common thickness gauging applications on tanks and pipelines. The graphical LCD display gives detailed information such as echo strength, probe type and measurement units. The moulded soft rubber surround feels comfortable, looks good and provides extra protection against knocks and scrapes.
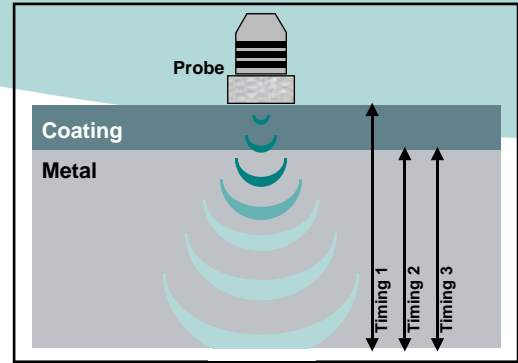
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About Triple Echo

All Ultrasonic Thickness Gauges should be calibrated to the velocity of sound of the material being measured. Coatings have a different velocity of sound than metal and it is important they are not included in the measurement. Triple Echo ensures all coatings are completely eliminated from the measurement.

How it works:

A transmitted ultrasound pulse travels though both the coating and the metal and reflects from the back wall. The returned echo then reverberates within the metal, with only a small portion of the echo travelling back through the coating each time. The timing between the small echoes gives us the timing of the echoes within the metal, which relate to the metal thickness. The returned echoes need not be consecutive as the gauge will interpret them automatically and calculate the thickness. A minimum of three echoes are checked each time. This is referred to as the **Automatic Measurement Verification System (AMVS)**.

Specification

Sound Velocity Range	From 1000 m/s to 8000 m/s (0.0394 in/µs to 0.3150 in/µs)		
Single Crystal Soft Faced Probe Options	2.25 MHz	3.5 MHz	5 MHz
Probe Measurement Range	3 - 250 mm (0.120" to 10")	2 - 150 mm (0.080" to 6")	1 - 50 mm (0.040" to 2")
Probe Sizes	13 mm (0.5") & 19 mm (0.75")	13 mm (0.5")	6 mm (0.25") & 13 mm (0.5")
Resolution	0.1 mm (0.005") or 0.05 mm (0.002")		
Accuracy	± 0.1 mm (0.005") or ± 0.05 mm (0.002")		
Display	Multigauge 5500 - Red 4 character 7 segment LED Multigauge 5600 - Multi character LCD with white back light		
Batteries	3 x disposable AA alkaline batteries or rechargeable NiMH / NiCD		
Battery Life	20 Hours continuous use using alkaline batteries		
Gauge Dimensions	147 mm x 90 mm x 28 mm (5.75" X 3.5" X 1")		
Gauge Weight	Multigauge 5500 - 320 g (11.3 ounces) including batteries Multigauge 5600 - 330 g (11.6 ounces) including batteries		
Environmental	Case rated to IP65. RoHS and WEEE compliant		
Operating Temperature	-10°C to +50°C (14°F to 122°F)		
Storage Temperature	-10°C to +60°C (14°F to 140°F)		

Tritex Multigauges are manufactured to comply with British Standard BS EN 15317:2007, which covers the characterisation and verification of ultrasonic thickness measuring equipment.

Contact

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Kit Contents:

Gauge, Probe, Cable, Spare Membranes, Membrane Oil, Ultrasonic Gel, 15 mm Test Block, Membrane Key, Manual, Calibration Certificate, Carry Case. Multigauge 5500 also has a belt clip.

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