

# Ultrasonic Thickness Gauge

Whatever the application, Tritex have a gauge suited specifically for it. 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 to completely ignore coatings, Tritex Multigauges are the choice for the future...

## Multigauge 5500

The Multigauge 5500 has been designed for hands free use when climbing on staging, ladders, scaffolding or when accessing by rope. Whether it's onboard a ship, on large storage tanks, climbing on top of a road tanker or inspecting underneath a bridge, the 5500 will make the job much easier.



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## Typical Applications

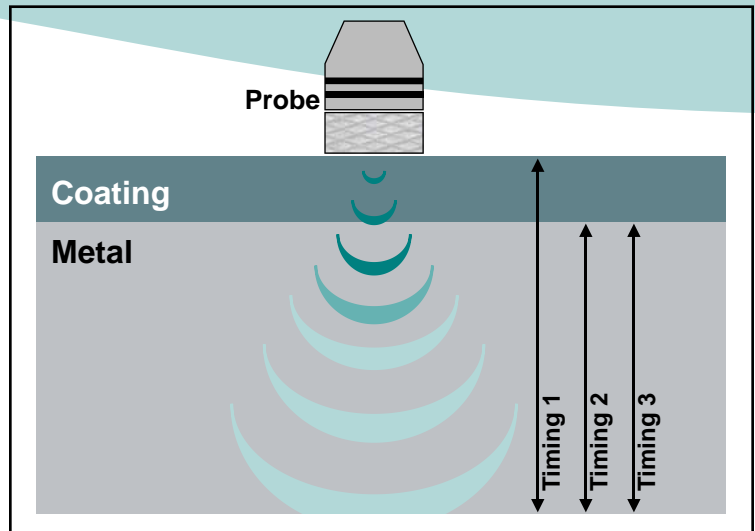
Shipping	Pipelines
Bridges	Road Tankers
Pilings	Offshore Platforms
Storage Tanks	Lighting Columns
Industry	Phone Masts
Quality Control	Lock Gates
Leisure Craft	Barges

# 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 through 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

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

The Tritex Multigauge 5500 has been manufactured to comply with British Standard BS EN 15317:2007, which covers the characterisation and verification of ultrasonic thickness measuring equipment.

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