



Ultrasonic Thickness Gauge

Multigauge 3000 Underwater Gauge

The Multigauge 3000 Underwater Gauge is a simple, robust ultrasonic thickness gauge designed for most common underwater thickness gauging applications. The gauge is pressure tested to 500m and has the option to transfer measurements to a surface display unit with the simple addition of a replacement end cap. It has been designed and built to survive extremely harsh conditions that exist in the offshore and underwater industries worldwide. The gauge uses multiple echo which means measurements can be easily taken without the need to remove coatings and the large bright LED display ensures the display can be seen by the diver, even in poor visibility.

The gauge is equipped with IPR (Intelligent Probe Recognition), which automatically adjusts settings in the gauge for enhanced performance and AMVS (Automatic Measurement Verification System) to ensure only true measurements are displayed, even on the most heavily corroded metals.



Features:

- Large 10mm display for poor visibility
- Ignores coatings using multiple echo
- Pressure tested to 500m
- Integral battery with 55 hour runtime on one fast charge. No need for a spare battery.
- Easy to use
- No fuss upgrade option to a topside repeater
- Rugged and robust
- Intelligent probe recognition (IPR)
- Automatic measurement verification (AMVS)
- No zeroing required

simple . accurate . robust



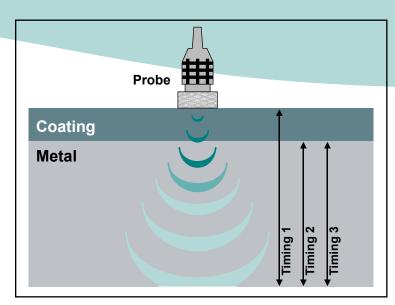






About Triple Echo

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.

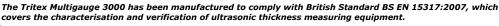


How it works:

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")	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	Red 4 character 7 segment LED		
Pressure Tested	500 metres		
Batteries	1 x Rechargeable 7.2V 2.3Ah NiMH battery pack		
Battery Life	55 Hours continuous use		
Gauge Dimensions	235 mm x 80 mm (9.25" x 3.15")		
Gauge Weight	1110 g (38.85 ounces) fully assembled		
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 NDT Ltd Unit 10 Mellstock Business Park Higher Bockhampton Dorchester, Dorset United Kingdom DT2 8QJ

+44 (0) 1305 257160 +44 (0) 1305 259573 e: sales@tritexndt.com

w: www.tritexndt.com



