



Dahec Instrumentacion

Underwater Ultrasonic Thickness Gauge



“We have a lot of experience using underwater thickness gauges, but my team insist on using only the Tritex gauges now. The Multigauge 3000 gives stable measurements and locks onto readings instantaneously”

SeaTech Commercial Diving Services Ltd - United Kingdom

Typical Applications

- Shipping
- Bridges
- Pipelines
- Dockyards
- Offshore Platforms
- Wind Turbines
- Pilings
- Dock Gates

Multigauge 3000 Diver

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



[Dahecinst](https://www.dahecinst.com)



contacto@dahecinst.com

dahecinstrumentacion@gmail.com



+52 5586114372
+52 7791340470

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
- Free calibration for the life of the gauge

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Surface Display Unit

The Surface Display Unit is used with the Multiguage 3000 Underwater Thickness Gauge to verify the measurements that the diver is getting, by either a class surveyor or supervisor. Also, readings can be clearly taken on the surface if the diver is operating in zero visibility. The Surface Display Unit has bi-directional communication with the Multiguage 3000 Underwater Thickness Gauge – This means that settings can be adjusted in the Multiguage 3000 without having to break the 'O' ring seals. Settings, such as calibration for different metal types, can be adjusted from the surface whilst the diver is underwater using the Multiguage 3000 Underwater Thickness Gauge.



"The gauge gives quick and accurate readings, requires far less surface preparation than other makes we have used and locks on much faster. It can speed up the survey process by a factor of at least two."



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Communicator Software

Tritex Communicator software displays live measurement results from the Multigauge 3000 onto either a laptop or PC. Templates can be preset based on a grid or string of measurements. This gives maximum versatility for a wide range of applications including measurements on pipelines, pilings or ship hulls.

As well as storing measurement data, Communicator software also has the option to store the time, date and an identifying label for each measurement. In addition, various settings within the gauge can be changed from the software to optimise performance.

The stored data is saved in a standard TXT format allowing importation into standard analysing programs.



Features

Displays real time measurements from the Multigauge 3000 Ultrasonic Thickness Gauge

Easy to install and very user friendly

Datalogging with grid or string templates, or a combination of both

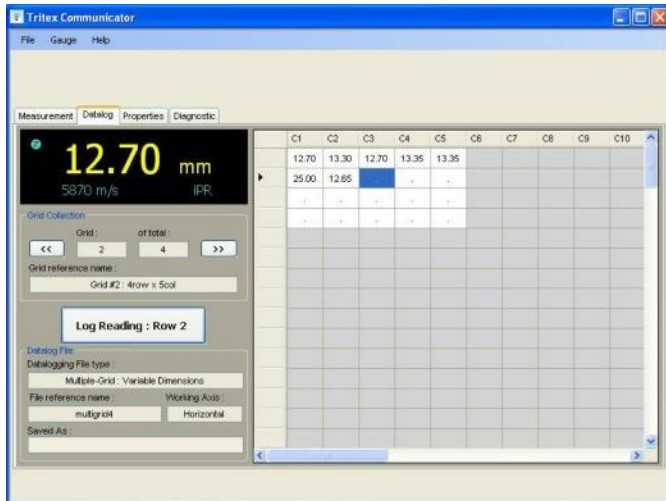
Bi-directional to allow settings in the gauge to be changed when the Multigauge 3000 is being used underwater

Accepts RS232 or RS422 input

Time, date and a label can be added to each measurement value

Common output interface (.txt)

Easy to use wizards for template programming



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Specifications



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Multigauge 3000 Gauge

* Figures relate to most coating types

Sound Velocity Range	<i>From 1000 m/s to 8000 m/s (0.0394 in/μs to 0.3150 in/μs)</i>		
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")		
Coatings Range	Up to 6 mm (Standard Mode)*; up to 20 mm (Coating Plus+)*		
Display	10mm 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	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)		

The Tritex Multigauge 6000 has been manufactured to comply with British Standard BS EN 15317:2013, which covers the characterisation and verification of ultrasonic thickness measuring equipment.

Surface Display Unit

Display:	Multi character LCD with white backlight
Batteries:	3 x disposable AA alkaline batteries or rechargeable NiMH / NiCD
Battery Life:	Up to 50 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:	330 g (11.6 ounces)
Environmental:	Case rated to IP65. RoHS and WEEE compliant
Operating Temp:	-10°C to +50°C (14°F to 122°F)
Storage Temp:	-10°C to +60°C (14°F to 140°F)

Kit Contents

Multigauge 3000, probe, spare membranes, membrane oil, 15mm test block, membrane key, spare 'O' rings, Molykote grease, nose cone release bar, battery charger with appropriate power lead, manual, calibration certificate, carry case.

3 YEAR WARRANTY



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