

Ultrasonic Thickness Gauge

Multigauge
3000
Underwater
Gauge



wyłączny przedstawiciel na Polskę:
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tritex
ndt

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, up to 6mm thick, 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.



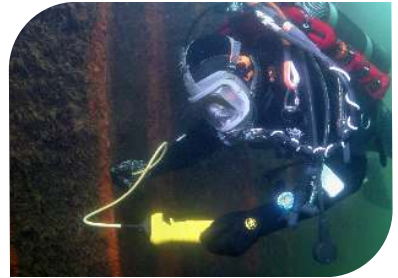
Features:

- Large 10mm display for poor visibility
- Ignores coatings up to 6mm thick using multiple echo. Coating Plus+ ignores coatings up to 20mm
- 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
- Intelligent Probe Recognition (IPR)
- Automatic Measurement Verification (AMVS)
- No zeroing required
- Free calibration for the life of the gauge
- Rugged and robust

simple . accurate . robust



Large Bright
10 mm Display



Multigauge 3000 Standard Kit

Multigaugage 3000

3 Options...

Multigaugage 3000 Diver Handheld

The standard unit allows the diver to take measurements underwater. The large bright display gives a clear reading even in poor visibility conditions. The gauge benefits from being highly visible and easy to hold due to its robust heavy duty construction.

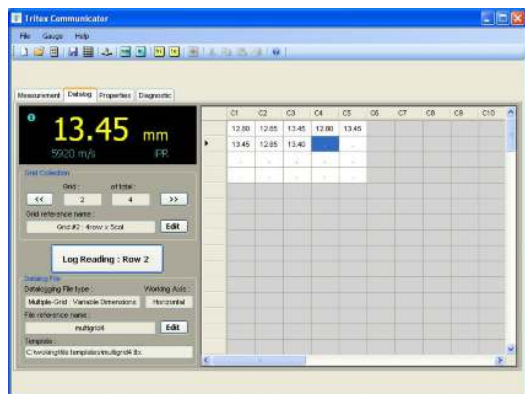
The Multigaugage 3000 can be easily upgraded to one of two topside repeater options by simply replacing the end cap. An alternative end cap houses an Impulse connector for connection to an umbilical. The umbilical can be up to 1000 metres long.

Multigaugage 3000 Surface Display Unit

The Multigaugage 3000 Surface Display unit repeats the measurements from the Multigaugage 3000 diver unit. This allows measurements to be displayed topside when visibility is too bad for the diver to see the display, or when measurements have to be verified by another person.

Additionally, it also allows the person on the surface to remotely change the settings on the diver unit, including the calibration, measurement units and resolution.

Multigaugage 3000 Surface Software



Communicator Software



Surface Display Unit

The Multigaugage 3000 Surface Software displays measurements onto a laptop which allows the topside person to log the data as required. The kit is supplied with an RS232 to USB converter for connection with most laptop computers.

The software allows the user to adjust settings in the gauge through a bi-directional link, display the repeated measurements from the diver and datalog the measurements into useful templates.



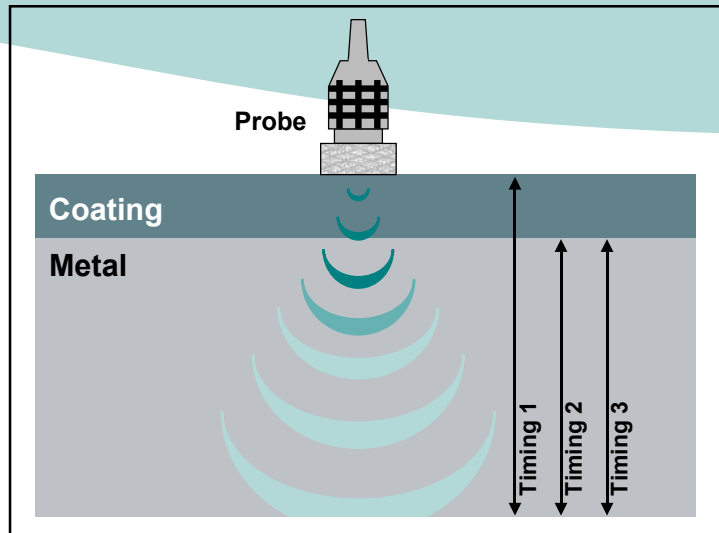
About Multiple Echo

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. Multiple Echo ensures all coatings, up to 6mm thick, 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

| | | | |
|--|--|------------------------------|-----------------------------|
| 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") | | |
| Coatings Range | Up to 6mm (Standard Mode)*; up to 20mm (Coating Plus+)* | | |
| 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 | 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) | | |

* Figures relate to most coating types

The Tritex Multigauge 3000 has been manufactured to comply with British Standard BS EN 15317:2007, which covers the characterisation and verification of ultrasonic thickness measuring equipment.



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.

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3 YEAR WARRANTY



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Ultrasonic Thickness Gauge

Multigaugage 4000 series ROV Gauge

The Multigaugage ROV 4100 and 4400 Underwater Gauges are simple, robust ultrasonic thickness gauges designed to be mounted onto all types of work class ROV's. There are two models in the range, the Multigaugage ROV 4100 which has a depth rating of 1000m and the Multigaugage ROV 4400 which has a depth rating of 4000m. Both gauges have been designed and built to survive extremely harsh conditions that exist in the offshore and underwater industries worldwide. The gauges use multiple echo which means measurements can be easily taken without the need to remove coatings, up to 6mm thick, and the selectable RS232 or RS422 output makes connection to most ROV's simple. 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,



Multigaugage 4400
4000 m

Features:

- Ignores coatings up to 6mm thick using multiple echo.
Coating Plus+ ignores coatings up to 20mm
- Depth rating to 1000m and 4000m
- Easy to use datalogging software
- Compatible with most ROV's
- RS232 or RS422 output
- Optional probe holder for correct presentation of the probe
- 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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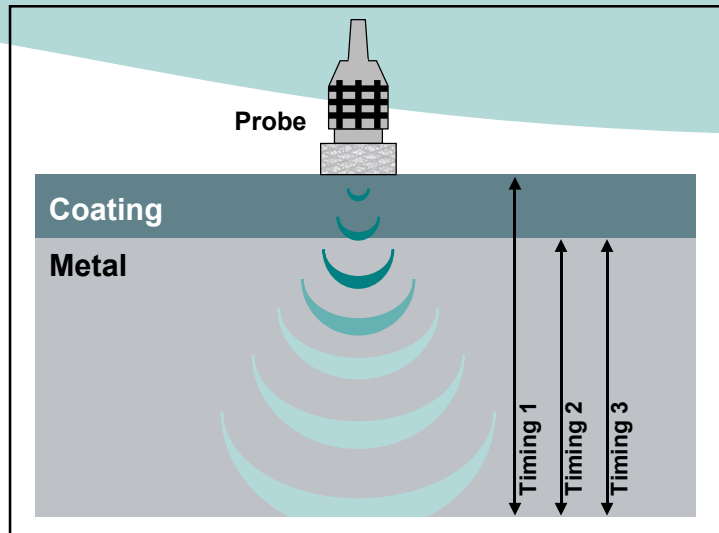


About Multiple Echo

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. Multiple Echo ensures all coatings, up to 6mm thick, 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

| | | | |
|--|---|---------------------------|--------------------------|
| 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") | | |
| Coatings Range | Up to 6mm (Standard Mode)*; up to 20mm (Coating Plus+)* | | |
| Output | RS232 or RS422 User Selectable | | |
| Pressure Tested | 1000 metres (Multigauge 4100) & 4000m (Multigauge 4400) | | |
| Power | 9Vdc - 30Vdc @ 150mA | | |
| Gauge Dimensions | 145 mm x 72 mm (5.71" x 2.83") | | |
| Gauge Weight | Multigauge 4100 ROV: 465 g (16.40 ounces) Multigauge 4400 ROV: 2500g (151.68 ounces) | | |
| 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) | | |



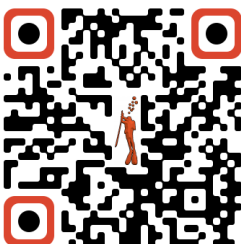
Kit Contents:

Multigauge 4000 gauge, probe, spare membranes, membrane oil, 15mm test block, membrane key, spare 'O' rings, Molykote grease, nose cone release bar, manual, calibration certificate, carry case, communicator software, RS422 - RS232 converter, Impulse connector with fly lead, ROV test cable, power supply for use with test cable.

3 YEAR WARRANTY



Contact



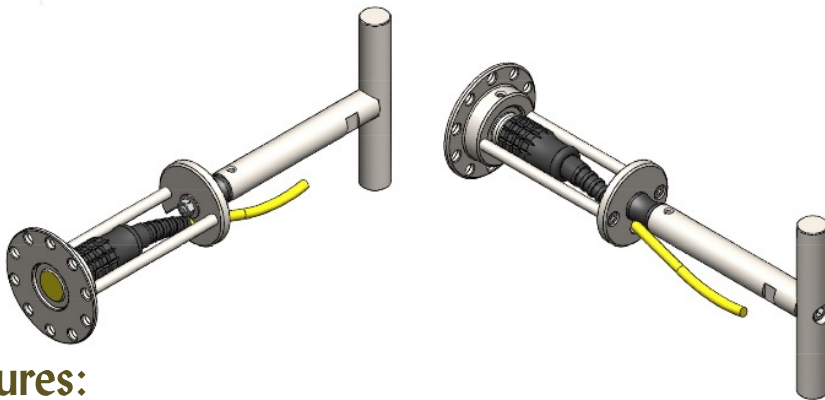
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Ultrasonic Thickness Gauge

Multigaugage 4000 series Probe Holder

The Multigaugage ROV Probe Holder has been designed to accurately present the ROV probe onto the surface being measured, whether it is curved or flat. The ingenious design means there are no moving parts to get clogged with silt and seaweed and yet there is a 75° freedom of movement in all directions - there are no axial restrictions.

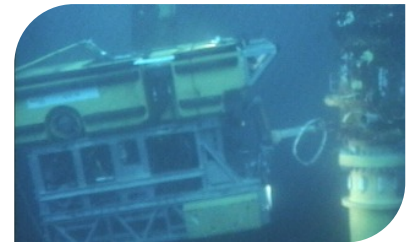
The probe can be mounted slightly recessed into the holder to prevent damage to the probe if a collision with the surface occurred. Measurements are unaffected by the small water gap due to the Multiple Echo technology used by all Tritex gauges, which ignores the water gap as if it were a coating.

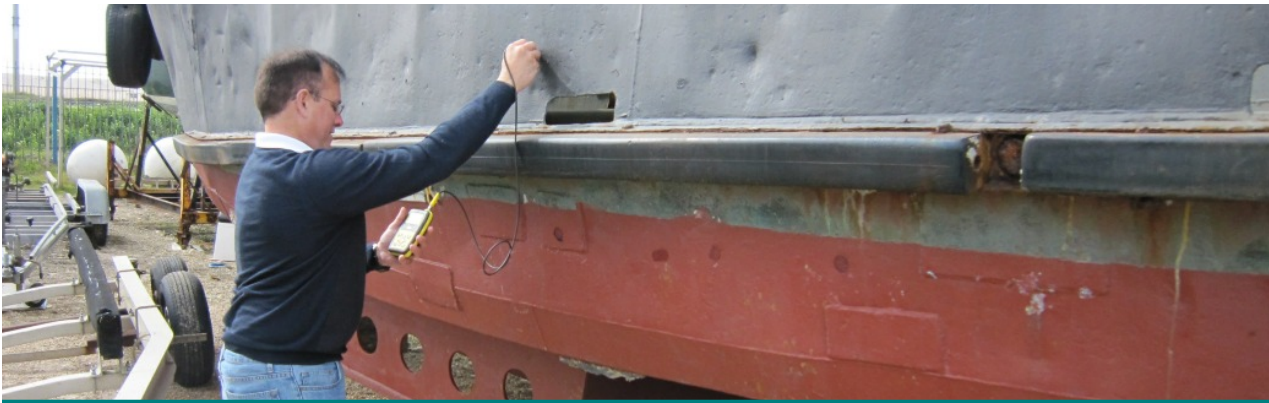


Features:

- * Automatically aligns probe on flat and curved surface.
- * No moving parts to get jammed from silt and seaweed.
- * Universal front plate can be fitted with lugs for pipelines or flat bars for ships hulls.
- * Standard 'T-bar' and 'fishtail' compatible.
- * Allows the probe to be recessed to prevent damage to the probe face.
- * Rugged and robust.
- * Can be used with most types of ROV.

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Ultrasonic Thickness Gauge

Multigaue 5300 / 5350 GRP

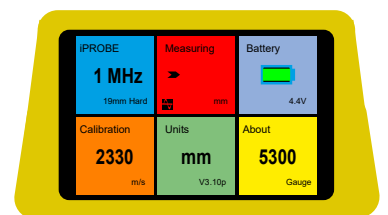
The Multigaue 5300 is a simple, robust ultrasonic thickness gauge designed to check the condition of Glass Reinforced Plastic (GRP) or Engineering Plastics. It can also be used on uncoated metal. The easy to use keypad allows operator interface, whilst the bright colour LCD display can be used in all light conditions. The moulded soft rubber surrounds the gauge, feels comfortable, looks good and provides extra protection against knocks and scrapes.

All probes have Intelligent Probe Recognition (IPR), 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.



Features

- Measures GRP or all types of engineering plastic
- Large colour LCD display giving user information.
- No zeroing required.
- Single crystal hard faced probe.
- Easy calibration with menu driven buttons.
- Intelligent Probe Recognition (IPR).
- Echo strength indicator.
- Datalogging version with wireless data transmission.
- 3 year warranty.
- Free calibration for the life of the gauge.



Easy Menu System

Typical Applications

- Leisure Craft
- Yachts
- Potable Water Tanks
- GRP Storage Tanks
- Marine Surveying
- Engineering Plastics
- Non Coated Metal

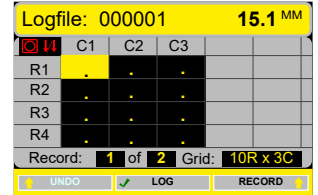
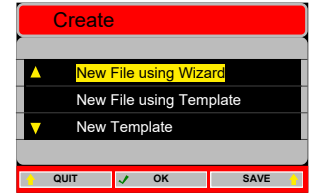
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Datalogging (Multigauge 5350)

Measurements can be logged using a grid or string format. The gauge will store up to 895 files, each containing 100 records. Each record can store either a string of 250 or grid of 16 x 16 measurements. The simple, easy to use menu guides the user through intuitive setup procedures.

The gauge uses wireless technology to transmit the measurements to the PC where dedicated Communicator software allows the analysis of the results or easy production of templates using wizards. Measurements are stored in a .txt format so that they can be opened in other applications.

Measurements can also be displayed remotely on a PC up to 1000 metres away.



Specification

| | |
|--|--|
| Sound Velocity Range | From 1000 m/s to 8000 m/s (0.0394 in/μs to 0.3150 in/μs) |
| Single Crystal Hard Faced Probe | 1 MHz |
| Probe Measurement Range | 2 - 300 mm (0.080" to 11") |
| Probe Sizes | 19 mm (0.75") |
| Resolution | 0.1 mm (0.005") |
| Accuracy | ± 0.1 mm (0.005") |
| Display | Multi character colour LCD |
| 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 | 325 g (11.5 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) |
| Multigauge 5350 Datalogger Only | |
| Storage capacity | 32 Mb |
| Data Transmission | Wireless RF |



Kit Contents:

Multigauge 5300 or Multigauge 5350 gauge, hard faced probe, probe lead, ultrasonic gel, 15mm test block, batteries, manual, calibration certificate, carry case.

Optional leather case.

Multigauge 5350 Datalogger Only
Transceiver, Communicator software

The Tritex Multigauge 5300 and Multigauge 5350 gauges have been 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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3 YEAR WARRANTY



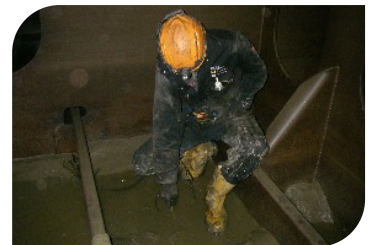
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Ultrasonic Thickness Gauge

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. The moulded soft rubber surround feels comfortable, looks good and provides extra protection against knocks and scrapes. All probes have Intelligent Probe Recognition (IPR), 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. Additionally, the Automatic Measurement Verification System (AMVS) ensures only true measurements are displayed, even on the most heavily corroded metals.



Features

- Ignores coatings up to **6 mm thick** using **Multiple Echo**.
Coating Plus+ ignores coatings up to 20 mm.
- Automatic Measurement Verification System (AMVS).
- Mounts onto waist belt or chest harness for hands free use.
- No zeroing required.
- Single crystal soft faced probe protected by a membrane.
- Easy calibration with menu driven buttons.
- Intelligent Probe Recognition (IPR).
- Echo strength indicator.
- 3 year warranty.
- Free calibration for the life of the gauge.



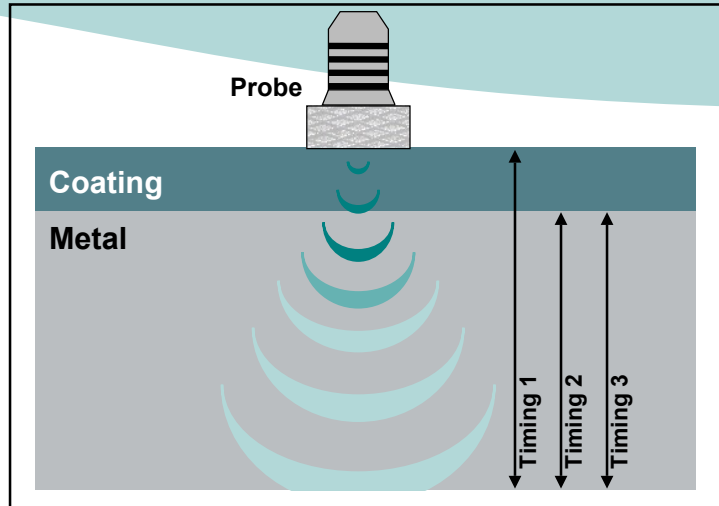
Typical Applications

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

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About Multiple 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. Multiple Echo ensures all coatings, up to 6mm thick, 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

| | | | |
|--|--|------------------------------|--------------------------------|
| 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") | | |
| Coatings Range | Up to 6mm (Standard Mode)*; up to 20mm (Coating Plus+)* | | |
| Display | Red 4 character 7 segment LED | | |
| 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 | 320 g (11.3 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) | | |

* Figures relate to most coating types

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.



Kit Contents:

Multigauge 5500 gauge, probe, probe lead, spare membranes, membrane oil, belt clip, ultrasonic gel, 15mm test block, membrane key, batteries, manual, calibration certificate, carry case. Optional leather case.

3 YEAR WARRANTY

Contact

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Ultrasonic Thickness Gauge

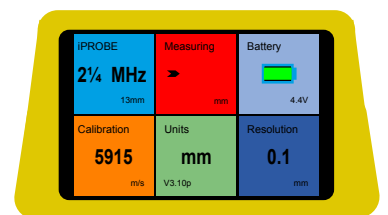
Multigaugage 5600

The Multigaugage 5600 is a simple, robust ultrasonic thickness gauge designed for most common thickness gauging applications. The easy to use keypad allows operator interface whilst the bright LCD display can be used in all light conditions. The moulded soft rubber surround feels comfortable, looks good and provides extra protection against knocks and scrapes. All probes have Intelligent Probe Recognition (IPR), 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. Additionally, the Automatic Measurement Verification System (AMVS) ensures only true measurements are displayed, even on the most heavily corroded metals.



Features

- Ignores coatings up to **6 mm thick** using **Multiple Echo**. Coating Plus+ ignores coatings up to 20 mm.
- Automatic Measurement Verification System (AMVS).
- Large colour LCD display giving user information.
- No zeroing required.
- Single crystal soft faced probe protected by a membrane.
- Easy calibration with menu driven buttons.
- Intelligent Probe Recognition (IPR).
- Echo strength indicator.
- 3 year warranty.
- Free calibration for the life of the gauge.



Easy Menu System

Typical Applications

Shipping
Bridges
Pilings
Storage Tanks
Industry
Quality Control
Leisure Craft

Pipelines
Road Tankers
Offshore Platforms
Lighting Columns
Phone Masts
Lock Gates
Barges

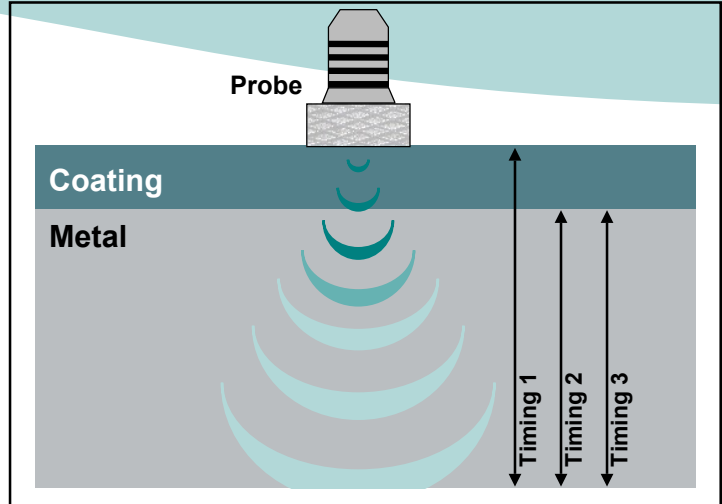
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About Multiple Echo

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. Multiple Echo ensures all coatings, up to 6mm thick, 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)**.

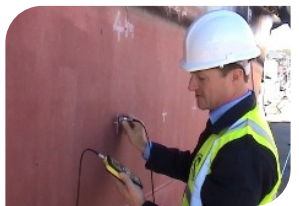


Specification

| | | | |
|--|--|------------------------------|--------------------------------|
| 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 | Colour LCD | | |
| Coatings Range | Up to 6mm (Standard Mode)*; up to 20mm (Coating Plus+)* | | |
| 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 | 325 g (11.5 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) | | |

* Figures relate to most coating types

The Tritex Multigauge 5600 has been manufactured to comply with British Standard BS EN 15317:2007, which covers the characterisation and verification of ultrasonic thickness measuring equipment.



Kit Contents:

Multigauge 5600 gauge, probe, probe lead, spare membranes, membrane oil, ultrasonic gel, 15mm test block, membrane key, batteries, manual, calibration certificate, carry case. Optional leather case.

3 YEAR WARRANTY

Contact



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Ultrasonic Thickness Gauge

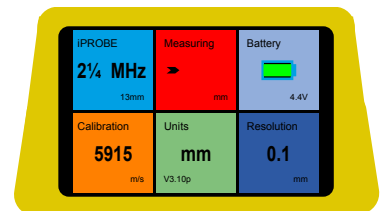
Multigauge 5650 / 5750 Surveyor Gauge

The Multigauge 5650 Surveyor / 5750 Surveyor Datalogger are simple, robust ultrasonic thickness gauges designed specifically for ship and small craft surveyors. The user has a choice of Multiple Echo, Echo to Echo or Single Echo to cover all requirements. The gauges can be used for metal, GRP or plastic measurement and they automatically switch modes and settings depending on the type of probe fitted. The easy to use keypad allows operator interface whilst the bright LCD display can be used in all light conditions. All probes have Intelligent Probe Recognition (IPR), 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. Additionally, the Automatic Measurement Verification System (AMVS) used with multiple echo ensures only true measurements are displayed, even on the most heavily corroded metals.



Features

- Ignores coatings up to **6 mm thick** using **Multiple Echo**. Coating Plus+ ignores coatings up to 20 mm.
- Single crystal soft faced probes protected by a membrane and single crystal hard faced probes for linear accuracy.
- Automatic Measurement Verification System (AMVS) in multiple echo mode.
- Echo - Echo mode for enhanced performance.
- Inspect GRP for osmosis.
- Large colour LCD display giving user information.
- No zeroing required.
- Easy calibration with menu driven buttons.
- Intelligent Probe Recognition (IPR).
- Echo strength indicator.



Easy Menu System

simple . accurate . robust

FREE ANNUAL CALIBRATION

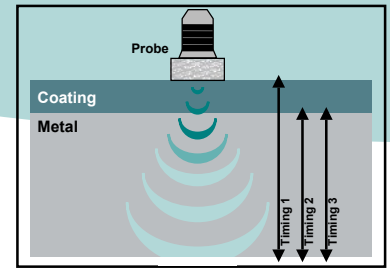
FREE 3 YEAR WARRANTY

About Multiple 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. Multiple Echo ensures all coatings, up to 6mm thick, are completely eliminated from the measurement.

How it works:

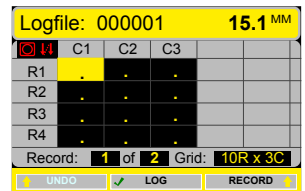
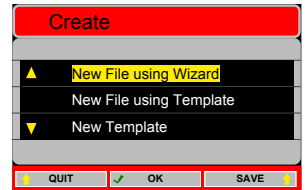
A transmitted ultrasound pulse travels through both the coating and the metal and reflects from the back wall. The returned echo then reverberates within the metal, with only a small portion of the echo travelling back through the coating each time. The timing between the small echoes gives us the timing of the echoes within the metal, which relate to the metal thickness. A minimum of three echoes are checked each time. This is referred to as the **Automatic Measurement Verification System (AMVS)**.



Datalogging (Multigauge 5750)

Measurements can be logged using a grid or string format. The gauge will store up to 895 files, each containing 100 records. Each record can store either a string of 250 or grid of 16 x 16 measurements. The simple, easy to use menu guides the user through intuitive setup procedures.

The gauge uses wireless technology to transmit the measurements to the PC where dedicated Communicator software allows the analysis of the results or easy production of templates using wizards. Measurements are stored in a .txt format so that they can be opened in other applications. Measurements can also be displayed remotely on a PC up to 1000 metres away.



Specification

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

| | | | | |
|--|--|-------------------------------|------------------------------|------------------------------|
| Sound Velocity Range | From 1000 m/s to 8000 m/s (0.0394 in/μs to 0.3150 in/μs) | | | |
| Single Crystal Probe Options | 1 MHz | 2.25 MHz | 3.5 MHz | 5 MHz |
| Probe Type | Hard Faced | Soft Faced | Soft Faced | Soft Faced |
| Probe Measurement Range | 2 - 300 mm (0.080" to 11") | 3 - 250 mm (0.120" to 9") | 2 - 150 mm (0.080" to 6") | 1 - 50 mm (0.040" to 2") |
| Probe Sizes | 19 mm (0.75") | 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 | Multi character Colour LCD | | | |
| 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 | 325 g (11.5 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) | | | |
| Multigauge 5750 Datalogger Only | | | | |
| Storage capacity | 32 Mb | | | |
| Data Transmission | Wireless RF | | | |

* Figures relate to most coating types



Kit Contents:

Multigauge 5650 or Multigauge 5750 datalogger gauge, soft faced probe, hard faced probe, probe lead, spare membranes, membrane oil, ultrasonic gel, 15mm test block, membrane key, batteries, manual, calibration certificate, carry case.

Optional leather case.

Multigauge 5750 Datalogger Only
Transceiver, Communicator software

3 YEAR WARRANTY

Contact



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Ultrasonic Thickness Gauge

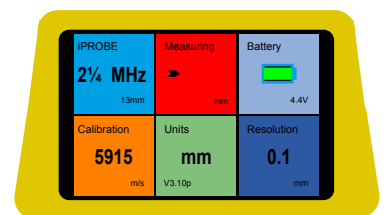
Multigauge 5700 Datalogger

The Multigauge 5700 is a simple, robust ultrasonic thickness gauge designed for most common thickness gauging applications with the added benefit of being able to store measurements within the gauge. The easy to use keypad allows operator interface whilst the bright LCD display can be used in all light conditions. The moulded soft rubber surround feels comfortable, looks good and provides extra protection against knocks and scrapes. All probes have Intelligent Probe Recognition (IPR), 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. Additionally, the Automatic Measurement Verification System (AMVS) ensures only true measurements are displayed, even on the most heavily corroded metals. The gauge can store measurements in either a grid or string format which can then later be used in other proprietary programs.



Features

- Ignores coatings up to **6 mm thick** using **Multiple Echo**. Coating Plus+ ignores coatings up to 20 mm.
- Automatic Measurement Verification System (AMVS).
- Large colour LCD display giving user information.
- No zeroing required.
- Wireless data transmission.
- Single crystal soft faced probe protected by a membrane.
- Easy calibration with menu driven buttons.
- Intelligent Probe Recognition (IPR).
- Echo strength indicator.
- 3 year warranty.
- Free calibration for the life of the gauge.



Easy Menu System

Typical Applications

Shipping
Bridges
Pilings
Storage Tanks
Industry
Quality Control
Leisure Craft

Pipelines
Road Tankers
Offshore Platforms
Lighting Columns
Phone Masts
Lock Gates
Barges

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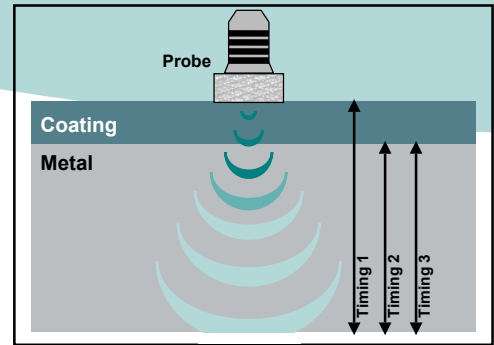
About Multiple Echo

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. Multiple Echo ensures all coatings, up to 6mm thick, 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

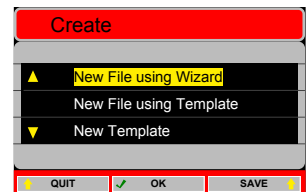
small echoes gives us the timing of the echoes within the metal, which relate to the metal thickness. The returned echoes need not be consecutive as the gauge will interpret them automatically and calculate the thickness. A minimum of three echoes are checked each time. This is referred to as the **Automatic Measurement Verification System (AMVS)**.



Datalogging

Measurements can be logged using a grid or string format. The gauge will store up to 895 files, each containing 100 records. Each record can store either a string of 250 or grid of 16 x 16 measurements. The simple, easy to use menu guides the user through intuitive setup procedures.

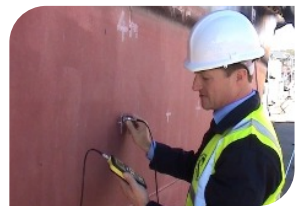
The gauge uses wireless technology to transmit the measurements to the PC where dedicated Communicator software allows the analysis of the results or easy production of templates.



Specification

The Tritex Multigauge 5700 has been manufactured to comply with British Standard BS EN 15317:2007, which covers the characterisation and verification of ultrasonic thickness measuring equipment.

| | | | |
|---|--|---------------------------|-----------------------------|
| 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 | Colour LCD | | |
| Storage capacity | 32 Mb | | |
| Data Transmission | Wireless RF | | |
| Coatings Range | Up to 6mm (Standard Mode)*; up to 20mm (Coating Plus+)* | | |
| 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 | 325 g (11.5 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) | | |



Kit Contents:

Multigauge 5700 gauge, probe, probe lead, spare membranes, membrane oil, ultrasonic gel, 15mm test block, membrane key, batteries, manual, calibration certificate, carry case. Optional leather case.

3 YEAR WARRANTY

Contact



* Figures relate to most coating types



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