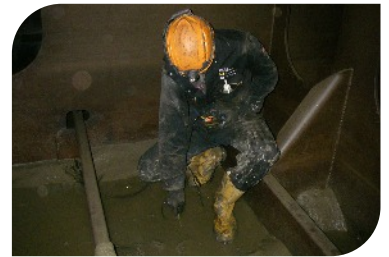


Ultrasonic Thickness Gauge

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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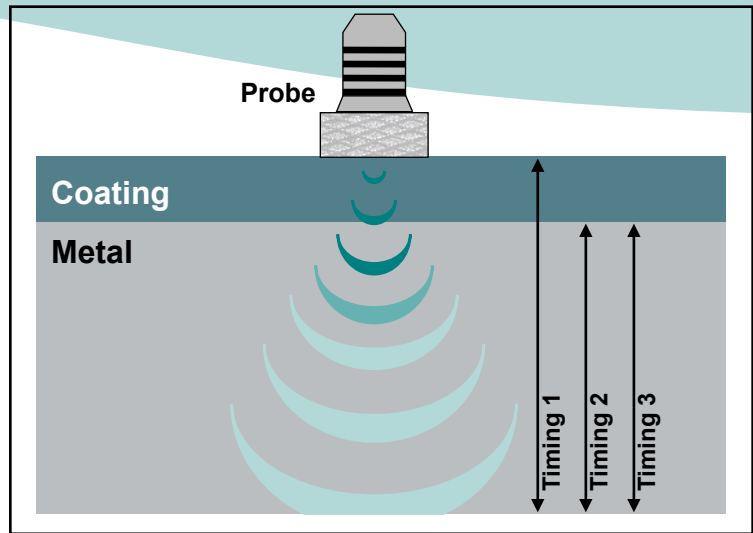
About Multiple Echo

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

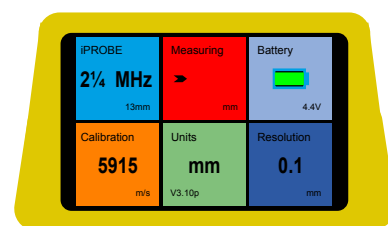
Multigaugage 5600

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

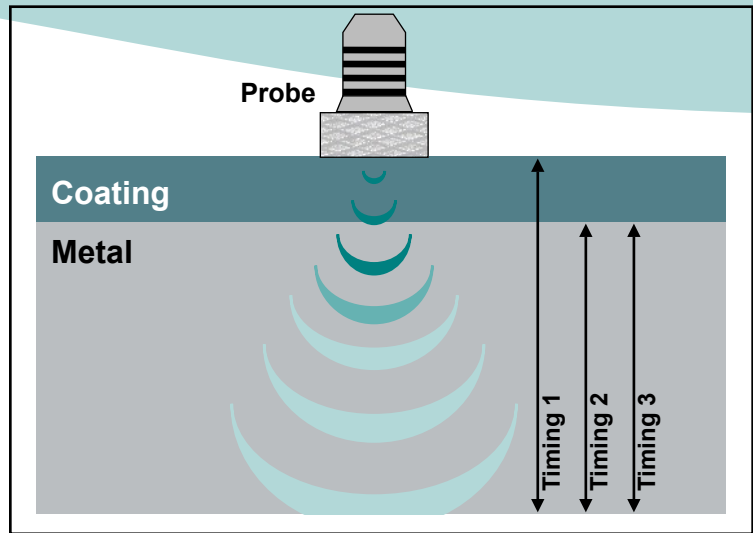
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About Multiple Echo

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") | | |
| 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 Multigaugage 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:

Multigaugage 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

UK Office:

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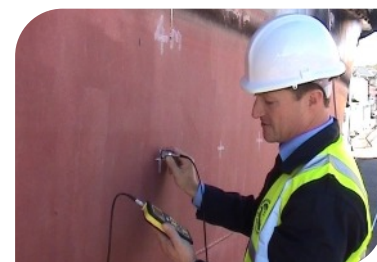


Ultrasonic Thickness Gauge

Multigaugage 5300 / 5350 GRP

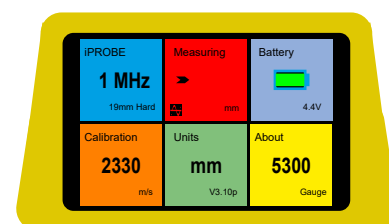
The Multigaugage 5300 is a simple, robust ultrasonic thickness gauge designed to check the condition of Glass Reinforced Plastic (GRP) or Engineering Plastics. It can also be used on uncoated metal. The easy to use keypad allows operator interface, whilst the bright colour LCD display can be used in all light conditions. The moulded soft rubber 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.



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

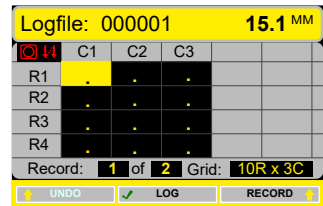
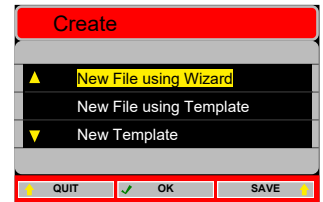
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Datalogging (Multigaugage 5350)

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) |
| Multigaugage 5350 Datalogger Only | |
| Storage capacity | 32 Mb |
| Data Transmission | Wireless RF |

The Tritex Multigaugage 5300 and Multigaugage 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.



Kit Contents:

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

Optional leather case.

Multigaugage 5350 Datalogger Only
Transceiver, Communicator software

Contact

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3 YEAR WARRANTY



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Ultrasonic Thickness Gauge

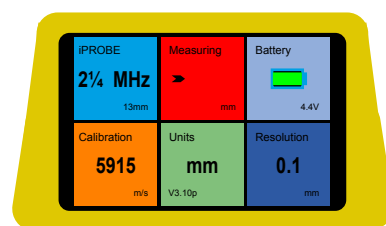
Multigaugage 5700 Datalogger

The Multigaugage 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

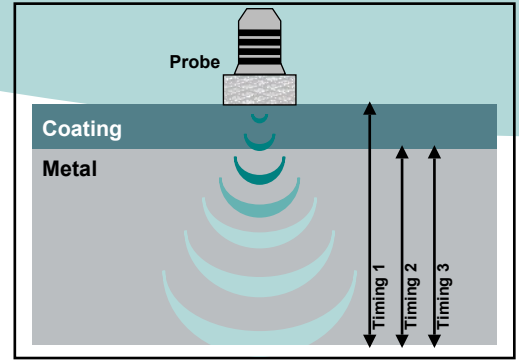
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About Multiple Echo

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:

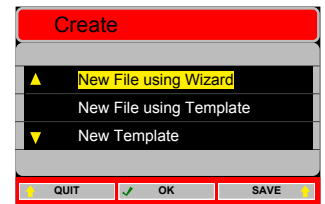
A transmitted ultrasound pulse travels through both the coating and the metal and reflects from the back wall. The returned echo then reverberates within the metal, with only a small portion of the echo travelling back through the coating each time. The timing between the small echoes gives us the timing 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.

Contact

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e: sales.us@tritexndt.com
w: www.tritexndt.com

* Figures relate to most coating types



3 YEAR WARRANTY



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Ultrasonic Thickness Gauge

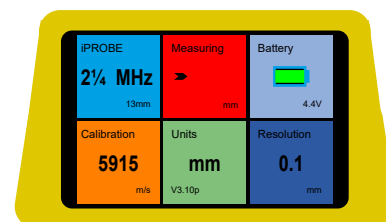
Multigaugage 5650 / 5750 Surveyor Gauge

The Multigaugage 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

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FREE
ANNUAL
CALIBRATION

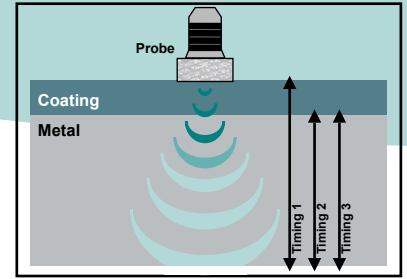
FREE
3 YEAR
WARRANTY

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:

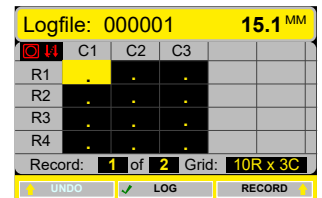
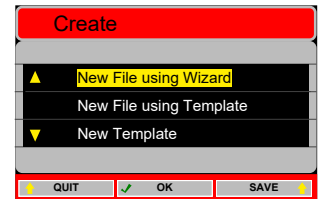
A transmitted ultrasound pulse travels through both the coating and the metal and reflects from the back wall. The returned echo then reverberates within the metal, with only a small portion of the echo travelling back through the coating each time. The timing between the small echoes gives us the timing 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

Contact

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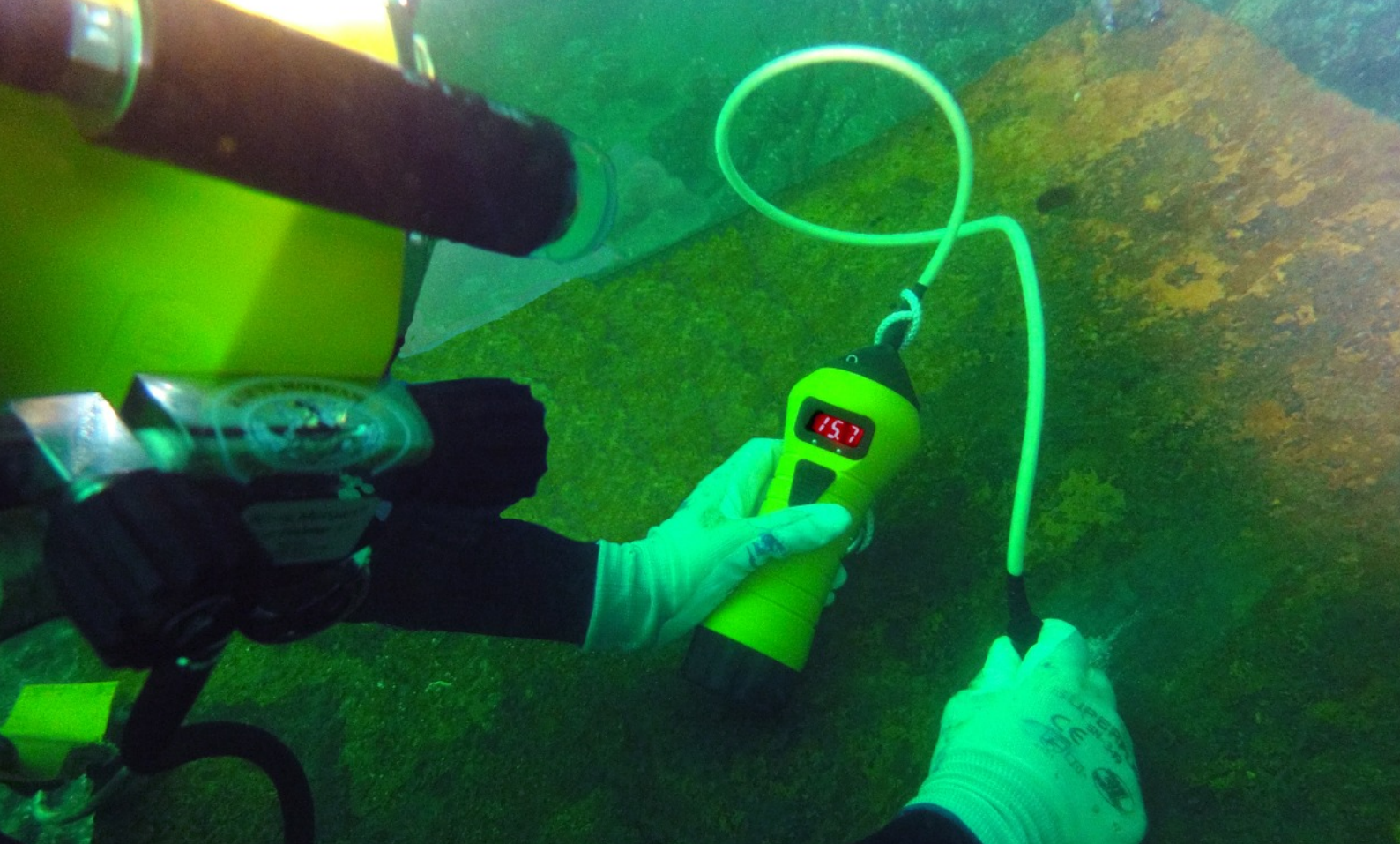
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3 YEAR WARRANTY

simple . accurate . robust



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.

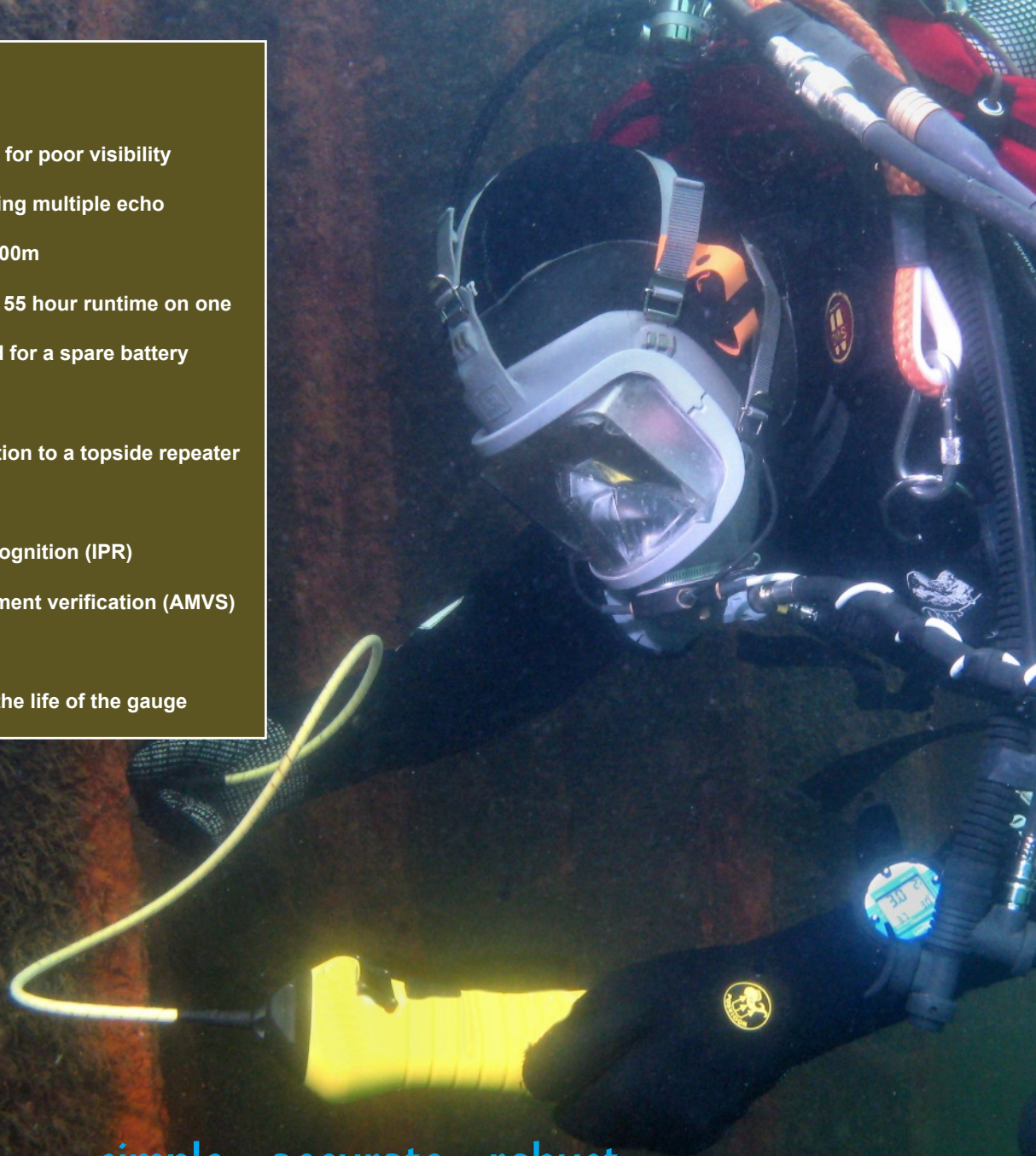


Robust Probe & Cable



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 Multigauge 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 Multigauge 3000 Underwater Thickness Gauge – This means that settings can be adjusted in the Multigauge 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 Multigauge 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."

Specifications

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.

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

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) |



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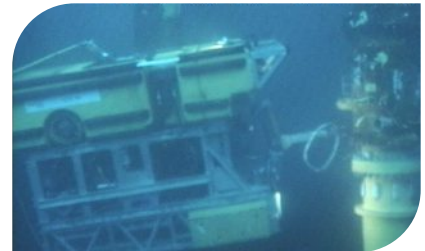
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Ultrasonic Thickness Gauge

Multigauche 4000 series ROV Gauge

The Multigauche 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 Multigauche ROV 4100 which has a depth rating of 1000m and the Multigauche 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,



Multigauche 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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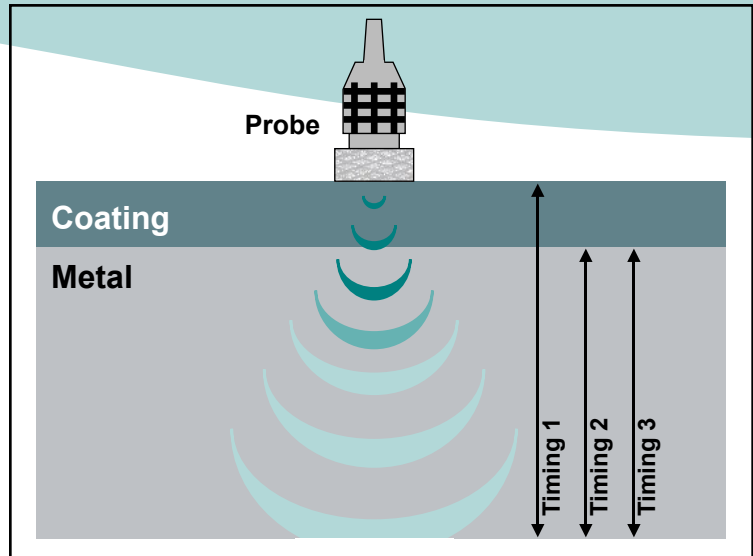


About Multiple Echo

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 (Multigauche 4100) & 4000m (Multigauche 4400) | | |
| Power | 9Vdc - 30Vdc @ 150mA | | |
| Gauge Dimensions | 145 mm x 72 mm (5.71" x 2.83") | | |
| Gauge Weight | Multigauche 4100 ROV: 465 g (16.40 ounces) Multigauche 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) | | |

* Figures relate to most coating types

The Tritex Multigauche 4000 series 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:

Multigauche 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

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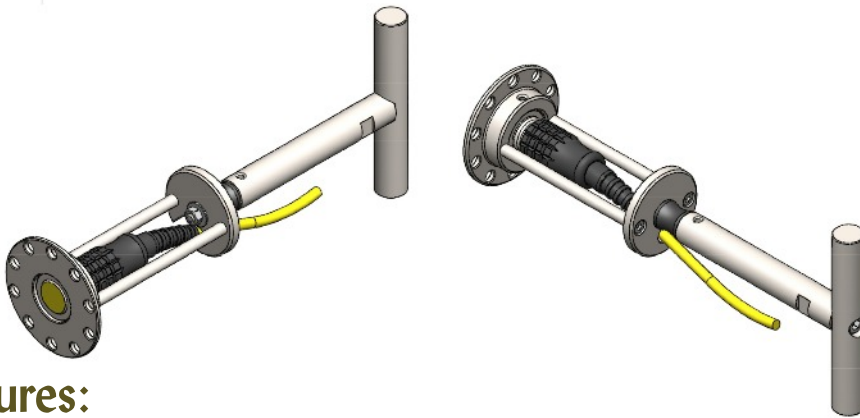
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Ultrasonic Thickness Gauge

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.

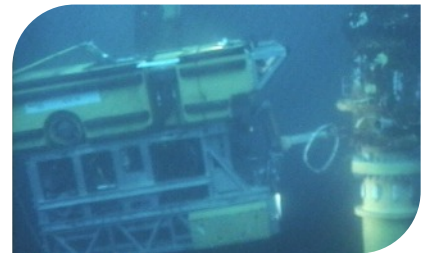
The probe can be mounted slightly recessed into the holder to prevent damage to the probe if a collision with the surface occurred. Measurements are unaffected by the small water gap due to the Multiple Echo technology used by all Tritex gauges, which ignores the water gap as if it were a coating.



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 Gauges

Communicator Software

For use with the Topside Repeater and ROV Gauges

Tritex Communicator software displays live measurement results from either the Multigaugage 3000 Underwater Thickness Gauge or the Multigaugage 4000 series ROV Thickness Gauges onto either a laptop or PC.

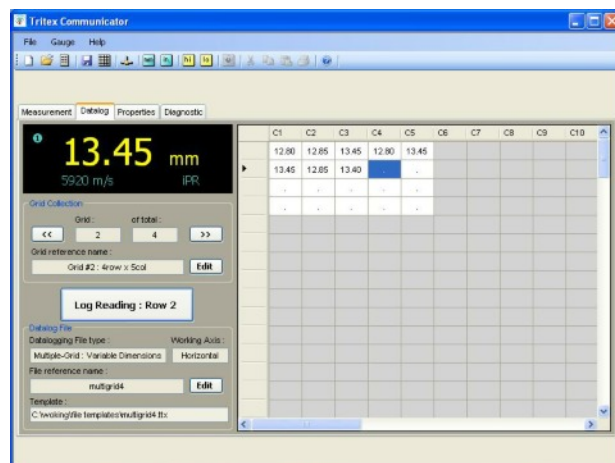
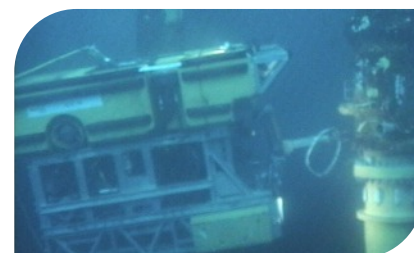
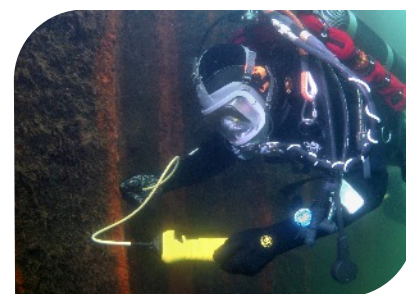
Templates can be preset based on a grid, string of measurements or a combination of both. This gives maximum versatility for a wide range of applications including measurements on pipelines, pilings or ship hulls.

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 either gauge can be changed from the software to optimise performance.

Features:

- ★ **Displays real time measurements from the Multigaugage 3000 or Multigaugage 4000 gauges.**
- ★ **Easy to install and very user friendly.**
- ★ **Datalogging with grid or string templates, or a combination of both, easily setup with a wizard.**
- ★ **Bi-directional to allow settings in the gauge to be changed.**
- ★ **Accepts RS232 or RS422 input.**
- ★ **Time, date and a label can be added to each measurement value.**
- ★ **Common output interface (.csv).**

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Photo courtesy of Tetra Drones - United Kingdom

Drone Ultrasonic Thickness Gauge



Typical Applications

Shipping

Bridges

Storage Tanks

Phone Masts

Silos

Lighting Columns

Offshore Platforms

Wind Turbines

Wireless
Transmission
up to 500m



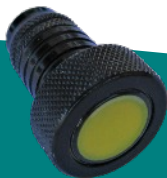
Photo courtesy of AAA Drone Inspection - France

Multigaugage 6000 Drone

The Multigaugage 6000 Drone Gauge uses Multiple Echo technology to ignore coatings up to 6 mm thick, just the metal substrate is measured. Measurements are transmitted wirelessly in real time to a PC or laptop up to 500 metres away. The system is made up of a Gauge, Gel Dispenser and Probe Holder, all designed to be very lightweight to maintain battery power. 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.



Lightweight
Probe



Features

- Ignores coatings up to **6 mm thick** using **Multiple Echo**. Coating Plus+ ignores coatings up to 20 mm.
- Easily installs onto most work class drones.
- Automatic Measurement Verification System (AMVS).
- Wirelessly transmits measurements up to 500 m.
- **Works with Tritex Gel Dispenser.**
- Lightweight.
- No zeroing required.
- 10 Vdc - 32 Vdc input supply.
- Single crystal soft faced probe.
- Easy calibration.
- Intelligent Probe Recognition (IPR).
- 3 year warranty.
- Free calibration for the life of the gauge.

“We are writing this as a testament to the quality of performance of the Multigauge 6000 Drone Thickness Gauge. Our technical team has given it high praise due its high accuracy and durability. It has impacted our field work positively.”

Group Director, Oil and Gas,
AERODYNE Group



Drone Probe Holder

The Probe Holder has been designed to accurately present the probe onto the surface being measured. The connecting spring allows flexibility in all directions and the cone shaped guard ensures the probe is aligned flat onto the surface. A damping compression spring means the probe cannot be driven onto the surface too hard causing damage. The lightweight construction can be used with most drones. It is supplied with two 250 mm x 16 mm diameter carbon tubes to extend the probe out beyond the drones rotors. A specially designed system allows couplant to be pumped onto the surface of the probe using the Tritex Gel Dispenser.



Photo courtesy of Eurodrone - Netherlands



Photo courtesy of Aerialsolutions - Belgium



Tritex MultigaUGE 6500 Drone

Tritex NDT have developed a drone to specifically carry the MultigaUGE 6000 Drone Thickness Gauge. It has been configured as a coaxial octocopter, offering multiple motor redundancy, whilst keeping the airframe size to a minimum with an all up weight of 3.5kg, including the gauge. Two batteries provides additional redundancy and flight times up to 15 minutes. The yellow canopy can be quickly removed, allowing the user to access the Thickness Gauge and Gel Dispenser.



A carbon fibre cage provides protection during internal inspections and the on-board camera allows the user to record up to 1080p at 60fps. The drone can be easily operated using the user-friendly controller with an integrated 7" tablet, which displays a live video feed and flight data.

The Pixhawk flight control system removes operating limitations, by not restricting flight areas, allowing qualified users to operate in any location. The drone, gauge and all accessories are easily transported, ready-to-fly, inside a Peli travel case with a custom foam insert.

Specifications

Multigauge 6000 Gauge

* Figures relate to most coating types

| | | | |
|--|---|------------------------------|-----------------------------|
| 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") | 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 | Communicator software on PC or laptop | | |
| Data Transmission | Wireless RF, 2.4 GHz. Internationally Acceptable | | |
| Coatings Range | Up to 6 mm (Standard Mode)*; up to 20 mm (Coating Plus+)* | | |
| Power Supply | 10 Vdc - 32 Vdc. Polarity Protection | | |
| Wireless Transmission Range | Up to 500 Metres | | |
| Dimensions (Including switches and connectors) | 139 mm x 62 mm x 31 mm (5.47" X 2.44" X 1.22") | | |
| Gauge Weight | 150 g (5.3 ounces) | | |
| Probe Weight (Lightweight Housing) | 25 g (0.88 ounces) | | |
| Probe Cable Weight (1.5 m) | 65 g (2.3 ounces) | | |
| Environmental | 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) | | |



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.

Probe Holder

| | |
|-----------------------------------|--------------------------------|
| Dimensions (Flexible Cage) | 110 mm x 82 mm (4.33" x 3.23") |
| Weight (with 2 x 250 mm sections) | 105 g (3.7 ounces) |

Multigauge 6500 Drone

| | |
|---|---|
| Configuration | <i>Coaxial Octocopter</i> |
| Weight | <i>3.5 Kg AUW / 4 Kg MTOW</i> |
| Dimensions (Without Cage Fitted) | <i>Length: 370 mm / Width: 429 mm (from motor to motor)</i> |
| Dimensions (With Cage Fitted) | <i>Length: 650 mm / Width: 700 mm</i> |
| Operating Voltage | <i>14 to 16.8V Nominal</i> |
| Battery Type | <i>LiPo 4S (4 cell) / 6250 Mah / 92.5 Wh</i> |
| Battery Configuration: | <i>Dual</i> |
| Motors | <i>8 x T-Motor 2212-18 920KV</i> |
| Motor Redundancy | <i>Yes</i> |
| Propeller Size | <i>9 x 4.5" Folding</i> |
| Propeller Type | <i>Folding - Ready to use from the carry case</i> |
| Flight Time | <i>Up to 15 Minutes</i> |
| Pilot Controller | <i>Herelink Integrated Tablet & Joystick</i> |
| Drone Flight Controller | <i>Pixhawk 4 Cube</i> |
| Operating Frequency | <i>2.4 GHz</i> |
| Control Range | <i>Up to 20 Km</i> |
| Autonomous Flight | <i>Yes (Outside Only)</i> |
| GPS Positioning | <i>Yes (Outside Only)</i> |
| Altitude Control | <i>Yes (Outside Only)</i> |
| Camera | <i>Foxeer Box 1080p 60fps Recording – Wifi</i> |
| Video Link | <i>HD up to 1080p 60Fps</i> |
| Propeller Guard | <i>Yes - Full All Round Protection</i> |
| Weather | <i>Dry / Light Rain</i> |
| Service | <i>100 Hours</i> |
| Redundancy Measures | <ul style="list-style-type: none"> ● Dual Battery Power Supply ● Motor Redundancy ● Triple Redundant IMU's |

Kit Contents (Drone Only):

- 1 x Drone
- 8 x Propellers
- 1 x Set of Batteries (2 batteries)
- 1 x Charger + Required Leads and Charge Bag
- 4 x Propeller Guards
- 1 x Allen Key Set
- 1 x Instruction Manual
- 1 x RC Controller with Integral Tablet
- 1 x Battery Checker
- 1 x Anti-Collision Cage

Gel Dispenser

| | |
|---|--|
| Power Supply | 6 Vdc taken from Multigauge 6000 Drone Gauge |
| Reservoir Volume | 70 ml |
| Flow Rate (water) | 90 ml / min |
| Pressure (water) | 9 psi |
| Tubing | Silicon, 2.4 mm (0.1") |
| Dimensions (Including switches and connectors) | 110 mm x 68 mm x 45 mm (4.33" x 2.67" x 1.77") |
| Weight including 1.5 m Tubing (Empty) | 180 g (6.35 ounces) |
| Environmental | 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) |



Photo courtesy of Raptor Drones - United Kingdom



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Kit Contents (Multigauge 6000):

Multigauge 6000 Drone gauge, probe, probe lead, spare membranes, membrane oil, ultrasonic gel, 15mm test block, membrane key, power supply, power - XT30 connector lead, manual, calibration certificate, carry case.

Optional: Flexible Probe Holder, Tritex Gel Dispenser, Multigauge 6500 Drone.

3 YEAR WARRANTY
(Multigauge 6000 Only)



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