

elcometer®  
NDT



MTG & PTG Range  
Ultrasonic Thickness Gauges

# Introducing the MTG & PTG Range

Ergonomic, rugged, accurate and easy to use, the Elcometer NDT MTG & PTG range of ultrasonic Material and Precision thickness gauges is ideal for measuring and recording material thickness from just 0.2mm (0.008") to 500mm (20").



## Easy

The MTG & PTG range of ultrasonic thickness gauges has been designed specifically to make them easy to use, calibrate, take readings and create inspection reports.

## Accurate

Both the MTG & PTG ranges have a measurement accuracy of up to  $\pm 1\%$  across their full range. Accurate and repeatable readings can be taken on smooth, rough and curved, coated or uncoated surfaces. The stability indicator provides a visual indication of both the strength and reliability of the ultrasonic signal.



## Efficient

Whilst the MTG2 and MTG4 have a set measurement repetition rate of 4Hz (4 readings per second), the MTG6, PTG6, MTG8 & PTG8 have user selectable measurement rates of 4, 8 and 16 Hz (4, 8 or 16 readings per second).

## Powerful

The MTG6, MTG8 & PTG8 have data-logging functionality. The MTG6 can store up to 1,500 readings in a single batch whilst the MTG8 & PTG8 store up to 100,000 readings in up to 1,000 sequential or grid type batches, with alpha-numeric batch naming. Compatible with ElcoMaster® and ElcoMaster® Mobile App, data can be downloaded via USB or Bluetooth® direct to PC, iOS\* or Android™ mobile devices for instant report generation.



## Rugged

With a scratch and solvent resistant display, sealed, heavy duty and impact resistant design - dust and waterproof equivalent to IP54 - the MTG and PTG range is suitable for use in the harshest of environments.

\* Compatible with iPod, iPhone and iPad

\*\* The Elcometer MTG and PTG range is extendable within 60 days from date of purchase, free of charge to two years  
[www.elcometer.com](http://www.elcometer.com)

**2**YEAR\*\*  
WARRANTY

The Elcometer NDT MTG & PTG range has a number of measurement modes available to help the user establish the most accurate thickness value. The modes available vary between models but normally increase as the model number increases.

**P-E**

## Pulsed - Echo Mode (P-E):

Ideal for pit and flaw detection, the total thickness from the base of the transducer to the material density boundary (typically the back wall) is measured.

**E-E**

## Echo - Echo Mode (E-E):

Ideal for measuring thinner materials between 0.15-10.15mm (0.006 - 0.4") thick, Echo-Echo mode measures from the top surface to the material density boundary ( typically the back wall).

**I-E**

## Interface Echo (I-E):

A highly accurate measurement mode, Interface Echo displays the total thickness from the top surface to the material density boundary.

**PLAS**

## Plastic Mode (PLAS):

A mode specifically used for measuring very thin plastics. A special graphite delay line accessory is required for this mode.

**VM**

## Velocity Mode (VM):

Velocity mode measures the speed of sound of materials and is ideal for determining the homogeneity of a material/ally and the correct velocity of a material for calibration.

# Key Features



The PTG range of Ultrasonic thickness gauges is accurate to  $\pm 1\%$  from 0.15mm (0.006") to 25.40mm (1.000").



The gauges have all the features and functionality necessary to measure material thickness and velocity on virtually any material in a wide range of applications.



Main Reading

Wide range of single and dual element transducers. (See page 19)

User selectable statistics



- Battery Life Indicator
- Measurement mode (P-E, E-E, I-E, PLAS, VM)
- Velocity of material
- Stability Indicator

Menu driven soft keys



Large easy to read measurements in Metric or Imperial units.



Cross sectional 2D B-Scan, ideal for relative depth analysis.



In scan mode the gauge takes readings at a rate of 16 Hz (16 readings per second).





Red/Green LED's for Hi & Lo limit indicators

Large, easy to read scratch and solvent resistant colour display

Easy to use menus in multiple languages

Integral zero disc

Dust and waterproof rugged design equivalent to IP54

Ergonomic design for continuous use

Wide range of intelligent transducers (see page 19)



USB and Bluetooth® data output to ElcoMaster® software

# PC

# Android™



Made for



iPod



iPhone



iPad

available with



Bluetooth®  
wireless technology



compatible with  
ElcoMaster.

The Elcometer NDT MTG & PTG range is easy to use and accurate to  $\pm 1\%$ . Offering 4, 8, & 16 Hz, the gauges are fast and incredibly powerful. Dust and waterproof equivalent to IP54, the MTG & PTG range is suitable for use in the harshest of environments. Data logging versions can store up to 100,000 readings and up to 1,000 Alpha-numeric, Sequential or Grid batches.

# Displays explained

The Elcometer NDT MTG & PTG range has a choice of measurement modes allowing the user to select the most appropriate for their application.



## The Display

All gauges have a fully customisable, scratch and solvent resistant colour LCD display. Measurement modes available include Pulsed-Echo (P-E), Echo-Echo ThruPaint™ (E-E), Interface Echo (I-E), Plastic Mode (PLAS) and Velocity mode (VM) (for more information on measurement modes, see page 3). A choice of measurement units are available, depending on the measurement mode selected. A stability indicator shows clearly both the strength and reliability of the ultrasonic signal.



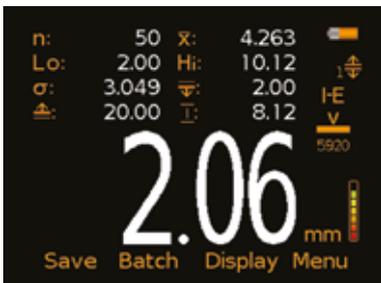
## Scan Mode

When enabled, users can slide the transducer over a large surface area whilst the gauge takes readings at a rate of 16 Hz (16 readings per second). During each scan, the live thickness is displayed together with an analogue bar graph showing the thickness relative to the set nominal value and any user defined limits, with audible and visual warnings if any readings fall outside the set limits. When the transducer is lifted off the surface, the average, lowest and highest thickness value is displayed making scan mode ideal for checking a sample's overall uniformity.



## Run Chart

A trend graph of the last 20 readings, showing the variation in material thickness over the test area. The graph is updated automatically as each reading is taken and any readings outside the set and enabled limits are displayed in red thus allowing the user to easily identify areas where corrosion may be present or the material is too thick for purpose.



## On Screen Statistics

Up to 8 statistical values can be displayed from a choice of number of readings (n), lowest, highest and average reading (Lo, Hi,  $\bar{x}$ ), standard deviation ( $\sigma$ ), low and high limit values, nominal value and range.



## Velocity Mode

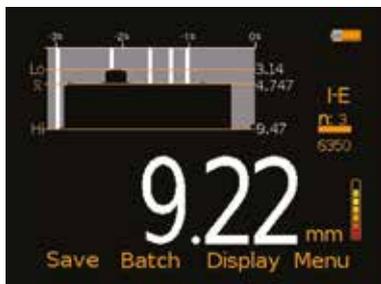
Velocity mode measures the speed of sound of materials and is ideal for determining the homogeneity of a material/alloy and the correct velocity of a material for calibration.

The modes available vary between models but normally increase as the model number increases.



## Sequential or Grid Batching

Individual readings can be stored in up to 1,000 sequential or grid type, alpha-numeric batches, together with date and time stamp and reading location\*. Users have the option to view batch readings, statistics and a graph of all readings stored within the batch. The obstruction feature (Obst)\*, allows the user to record areas where measurements could not be taken.



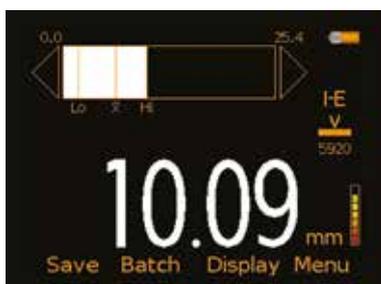
## B-Scan Reading

A time based, cross sectional 2 dimensional B-Scan provides a graphical view of the material under test, ideal for relative depth analysis. The zoom of the B-Scan reading can either be set to automatic or can be defined by the user to focus on areas of interest.



## Differential Mode

Once a user defined nominal thickness value has been set, the gauge displays the measured thickness together with the variation from the set nominal value thus indicating areas of the material which are thinner or thicker than expected.



## Bar Graph

An analogue representation of the current measurement value together with the highest (Hi), lowest (Lo) and average ( $\bar{x}$ ) reading. The graph is updated automatically when each reading is taken.



## Plastic Mode

Plastic mode is specifically designed for measuring very thin plastics.

\* Grid batches only

## Features

P-E

- Pulsed -Echo (P-E) measurement Mode
- Pre-calibrated for measuring on steel only
- Preset measurement rate of 4 readings per second
- USB data output to PC or similar device

With automatic transducer recognition, which ensures correct probe identification even when the transducer is changed, a measurement rate of 4Hz (4 readings per second) and integral zero disc, ensuring maximum accuracy of  $\pm 1\%$ , the MTG2 is ideal for taking basic thickness measurements.

The MTG2 is supplied complete with 5MHz, 1/4" transducer and is pre-calibrated for measuring on steel only with a thickness range of up to 500mm (20") in Pulsed-Echo (P-E) mode. For further information on measurement modes, see page 3.

Compatible with ElcoMaster® software, individual readings can be downloaded via USB to PC or similar device for further analysis.

**Packing List**  
 Elcometer MTG2 gauge, 5MHz 1/4" right angle transducer, couplant, wrist harness, screen protector, protective case, 2 x AA batteries, calibration certificate, two year warranty extension card, operating instructions

## Features

P-E

E-E

- Pulsed-Echo (P-E) and Echo-Echo ThruPaint™ (E-E) measurement modes
- 1-Point, Material and Factory calibration options
- Preset measurement rate of 4 readings per second
- USB data output to PC or similar device



With a choice of calibration options and measurement modes, the MTG4 is ideal for taking readings on a wide range of coated and uncoated materials.

As well as all the features of the MTG2, the MTG4 has two calibration options. Using an uncoated sample of test material of a known thickness, the gauge can be calibrated using 1-Point calibration. Alternatively, the user can select one of 39 preset materials stored within the gauge including; aluminium, steel, stainless steel, cast iron, plexiglass, PVC, polystyrene and polyurethane. For a full list of materials, see page 22.

Echo-Echo ThruPaint™ (E-E) measurement mode enables readings to be taken on coated materials with a thickness range up to 20mm (0.787"). In Echo-Echo ThruPaint™ mode, the coating thickness is ignored and the material thickness from the top surface of the material to the material density boundary is displayed. For further information on measurement modes, see page 3.

Compatible with ElcoMaster® software, individual readings can be downloaded via USB to PC or similar device for further analysis.

### Packing List

Elcometer MTG4, 5MHz 1/4" right angle transducer, couplant, wrist harness, screen protector, protective case, 2 x AA batteries, calibration certificate, two year warranty extension card, operating instructions



## Features

P-E

E-E

VM

- Pulsed-Echo (P-E), Echo-Echo ThruPaint™ & Velocity (VM) measurement modes
- 2-Point, 1-Point, Material, Velocity, Thickness Set and Factory calibration options
- User selectable measurement rate; 4, 8, 16 readings per second
- User selectable reading resolution; 0.1mm (0.01”) or 0.01mm (0.001”)
- Scan Mode
- Readings, Selected Statistics, Bar Graph & Run Chart
- Gauge memory; single sequential batch of up to 1,500 readings
- USB and Bluetooth® data output to ElcoMaster® and ElcoMaster® Mobile App

With a choice of calibration options, measurement modes – including high speed scan mode, display options and data-logging, the MTG6 is ideal for taking readings on a wide range of coated and uncoated materials and downloading data for further analysis and reporting.

As well as all the features of the MTG2 & MTG4, the MTG6 has additional calibration options; 2-Point, Velocity and known Thickness Value.

The MTG6 offers Velocity Mode (VM) which is ideal for determining the homogeneity of a material/ally and the correct velocity of a material for calibration. For further information on measurement modes, see page 3.

Using Scan Mode, readings can be taken at a rate of 16Hz (16 readings per second) over a large surface area. When the transducer is lifted off the surface, the average, lowest and highest thickness value is displayed making scan mode ideal for checking a sample’s overall uniformity. For further information on scan mode, see page 6.

With a user definable display, users can choose to view readings, statistical information, bar graph - an analogue representation of the current reading together with the highest (Hi) , lowest (Lo); and average ( $\bar{x}$ ), reading or a run chart; a trend graph of the last 20 readings. For further information on display options, see pages 6 and 7.

The MTG6 has a single batch gauge memory and can store up to 1,500 readings. Compatible with both ElcoMaster® and ElcoMaster® Mobile App, readings can be downloaded via USB or Bluetooth® to PC, iOS or Android™ devices for further analysis and reporting.

### Packing List

Elcometer MTG6DL, 5MHz 1/4" right angle transducer, couplant, wrist harness, 3 x screen protector, protective case, plastic transit case, 2 x AA batteries, calibration certificate, USB cable, ElcoMaster® Software, two year warranty extension card, operating instructions

Android™ 

Made for  
 iPod  iPhone  iPad

available with  
 Bluetooth  
wireless technology

compatible with  
 ElcoMaster

## Features

P-E

E-E

VM

- Pulsed-Echo (P-E), Echo-Echo ThruPaint™ & Velocity (VM) measurement modes
- 2-Point, 1-Point, Material, Velocity, Thickness Set and Factory calibration options
- Three user programmable calibration memories
- User selectable measurement rate; 4, 8, 16 readings per second
- User selectable reading resolution; 0.1mm (0.01") or 0.01mm (0.001")
- Scan Mode
- Readings, Selected Statistics, Bar Graph, Run Chart, B-Scan & Differential Mode
- Gauge memory; stores 100,000 readings in up to 1,000 sequential or grid batches
- User definable upper and lower limits with audible & visual pass/fail warnings
- USB and Bluetooth® data output to ElcoMaster® and ElcoMaster® Mobile App



The MTG8 is the top of the range gauge with all the features and functionality necessary for measuring material thickness and velocity on virtually any material and for a wide range of applications.

As well as all the features of the MTG2, MTG4 and MTG6, the MTG8 allows users to store into memory up to three calibrations. Once saved the user can select a calibration memory without the need to re-calibrate the gauge, ideal for users who are measuring a variety of materials or thicknesses. Using the gauge's alpha-numeric function, calibration memories can be re-named to suit the calibration setting.

The MTG8 has user definable upper and lower limits with audible and visual pass/fail warnings. Limits can be set for individual readings or for each batch. If a measurement is taken which falls outside the set limits, the reading value and the limit icon turn red, the red LED flashes and the alarm beeps providing immediate indication of problem areas.

The MTG8 has Differential Mode; once a user defined nominal thickness value is set, the gauge displays the measured thickness together with the variation from the set nominal value thus indicating areas of the material which are thinner or thicker than expected.

The MTG8 offers B-Scan, a time based, cross sectional 2 dimensional graphical view of the material under test, ideal for relative depth analysis. The zoom of the B-Scan reading can either be set to automatic or can be defined by the user to focus on areas of interest.

The MTG8 can store 100,000 readings in up to 1,000 sequential or grid type batches. Using grid batching, readings are stored in a spreadsheet type format. The Obst feature, allows the user to record an obstruction within the grid.

Compatible with ElcoMaster®, PC & Mobile App, readings can be downloaded via USB or Bluetooth® to PC, iOS or Android™ devices for further analysis and reporting.

Android™ 

Made for  
 iPod  iPhone  iPad

available with  
 Bluetooth  
 wireless technology

compatible with  
 ElcoMaster.

### Packing List

Elcometer MTG8BDL, 5MHz 1/4" right angle transducer, couplant, wrist harness, 3 x screen protector, protective case, plastic transit case, 2 x AA batteries, calibration certificate, USB cable, ElcoMaster® Software, two year warranty extension card, operating instructions



## Features

I-E

E-E

PLAS

- Interface Echo (I-E) Echo-Echo (E-E) ) & Plastic Mode (PLAS) measurement modes
- Measurement range from 0.15mm (0.006") to 25.40mm (1.000")
- 2-Point, 1-Point, Material, Velocity and Factory Calibration options
- User selectable measurement rate; 4,8,16 readings per second
- User selectable reading resolution; 0.1mm (0.01") or 0.01mm (0.001")
- USB output to ElcoMaster®

When precision is key, the PTG6 has a measurement range of 0.15mm (0.006") to 25.40mm (1.000") with  $\pm 1\%$  accuracy, across three measurement modes, Interface Echo (I-E), Echo-Echo (E-E), and Plastic Mode (PLAS). This gauge allows users to take measurements with pinpoint accuracy.

For further information on measurement modes, see page 3.

The PTG6 has a number of calibration options. Using an uncoated sample of test material of a known thickness, the gauge can be calibrated using 1-Point calibration. Alternatively, the user can select one of 39 pre-set materials stored within the gauge including; aluminium, steel, stainless steel, cast iron, plexiglass, PVC, polystyrene and polyurethane. For a full list of materials, see page 22.

The PTG6 also offers the additional calibration options of 2-Point & Velocity.

Compatible with ElcoMaster® software, individual readings can be downloaded via USB to PC or similar device for further analysis.

### Packing List

Elcometer PTG6, 15MHz 1/4" Microdot right angle single element transducer, couplant, wrist harness, 3 x screen protector, protective case, plastic transit case, 2 x AA batteries, calibration certificate, two year warranty extension card, operating instructions

## Features

I-E

E-E

PLAS

- Interface Echo (I-E) Echo-Echo (E-E) & Plastic Mode (PLAS) measurement modes
- Measurement range from 0.15mm (0.006") to 25.40mm (1.000")
- 2-Point, 1-Point, Material, Velocity & Factory Calibration options
- Three user programmable calibration memories
- User selectable measurement rate; 4,8,16 readings per second
- User selectable reading resolution; 0.1mm (0.01") or 0.01mm (0.001")
- Scan Mode
- Readings, selected statistics, Bar Graph, Run Chart, B-Scan & Differential Mode
- Gauge memory; stores up to 100,000 readings in up to 1,000 sequential or grid batches
- User definable upper and lower limits with audible & visual pass/fail warnings
- USB and Bluetooth® data output to ElcoMaster® and ElcoMaster® Mobile App



The PTG8 is the top of the range gauge with all the features and functionality necessary for measuring, with precision, material thickness on virtually any material.

With a user definable display, users can choose to view readings, statistical information, bar graph together with the highest (Hi); lowest (Lo); and average ( $\bar{x}$ ); reading or a trend graph of the last 20 readings.

In Scan Mode, readings can be taken at a rate of 16Hz (16 readings per second) over a large surface area. When the transducer is lifted off the surface, the average, lowest and highest thickness values are displayed.

The PTG8 allows users to store into memory up to three calibrations. Once saved the user can select a calibration without the need to re-calibrate the gauge, ideal for users who are measuring a variety of materials or thicknesses.

Using the gauge's alpha-numeric function, calibration memories can be re-named to suit the calibration setting.

The PTG8 has user definable upper and lower limits with audible and visual pass/fail warnings. Limits can be set for individual readings or for each batch. If a measurement is taken which falls outside the set limits, the reading value and the limit icon turns red, the red LED flashes and the alarm beeps.

### Packing List

Elcometer PTG8 BDL, 15MHz 1/4" Microdot right angle single element transducer, couplant, wrist harness, 3 x screen protector, protective case, plastic transit case, 2 x AA batteries, calibration certificate, USB cable, ElcoMaster® Software, two year warranty extension card, operating instructions

The PTG8 has Differential Mode; once a user defined nominal thickness value is set, the gauge displays the measured thickness together with the variation from the set nominal value thus indicating areas of the material which are thinner or thicker than expected.

The PTG8 offers B-Scan, a time based, cross sectional 2 dimensional graphical view of the material under test, ideal for relative depth analysis. The zoom of the B-Scan reading can either be set to automatic or can be defined by the user to focus on areas of interest.

The PTG8 can store 100,000 readings in up to 1,000 sequential or grid type batches. Using grid batching, readings are stored in a spreadsheet type format. The Obst feature, allows the user to record an obstruction within the grid.

Compatible with ElcoMaster® PC & Mobile App, readings can be downloaded via USB or Bluetooth® to PC, iOS or Android™ devices for further analysis and reporting.

Android™ 

Made for  
 iPod  iPhone  iPad

available with  
 Bluetooth®  
 wireless technology

compatible with  
 ElcoMaster.

# MTG Model Comparison

| Model Number  |                                      | MTG2  | MTG4   | MTG6                    | MTG8                    |
|---|--------------------------------------|---|--|-------------------------|-------------------------|
| Part Number (with transducer) <sup>1</sup>                                      |                                      | MTG2-TXC  | MTG4-TXC                                       | MTG6DL-TXC              | MTG8BDL-TXC             |
| Part Number (gauge only)  |                                      |   | MTG4   | MTG6DL                  | MTG8BDL                 |
| Easy to use menu structure in multiple languages                                |                                      | ■   | ■  | ■                       | ■                       |
| Tough, impact, waterproof and dust resistant equivalent to IP54                 |                                      | ■   | ■  | ■                       | ■                       |
| Bright colour screen with permanent backlight                                   |                                      | ■   | ■  | ■                       | ■                       |
| Ambient light sensor, with adjustable brightness                                |                                      | ■   | ■  | ■                       | ■                       |
| Scratch and solvent resistant display; 2.4" (6cm) TFT                           |                                      | ■   | ■  | ■                       | ■                       |
| Large positive feedback buttons   |                                      | ■   | ■  | ■                       | ■                       |
| USB power supply via PC   |                                      | ■   | ■  | ■                       | ■                       |
| Gauge software updates <sup>2</sup> via ElcoMaster <sup>®</sup> Software        |                                      | ■   | ■  | ■                       | ■                       |
| 2 year gauge warranty <sup>3</sup>  |                                      | ■   | ■  | ■                       | ■                       |
| Limits: 40 definable audible & visual pass/fail warnings                        |                                      |   |  |                         | ■                       |
| Measurement Rate  |                                      | 4Hz   | 4Hz  | 4, 8, 16Hz <sup>4</sup> | 4, 8, 16Hz <sup>4</sup> |
| <b>Measurement Mode</b>   | <b>Range<sup>5</sup></b>             | <b>Accuracy<sup>6</sup></b>                     |  |                         |                         |
| Pulsed Echo (P-E)   | 0.63-500mm (0.025-20")               | ±0.1mm (0.63-19.99mm)<br>±0.5% (20.00-500.00mm) | ±0.004" (0.025-0.787")<br>±0.5% (0.788-20.00") | ■                       | ■                       |
| Pulsed Echo (P-E)   | 0.63-500mm (0.025-20")               | ±0.05mm (0.63-9.99mm)<br>±0.5% (10.00-500.00mm) | ±0.004" (0.025-0.393")<br>±0.5% (0.394-20.00") | ■                       | ■                       |
| Echo Echo ThruPaint™ (E-E)  | 2.54-20.00mm (0.100-0.787")          | ±0.1mm (2.54-20.00mm)                           | ±0.004" (0.100-0.787")                         | ■                       |                         |
| Echo Echo ThruPaint™ (E-E)  | 2.54-20.00mm (0.100-0.787")          | ±0.05mm (2.54-9.99mm)<br>±0.5% (10.00-20.00mm)  | ±0.004" (0.100-0.393")<br>±0.5% (0.394-0.787") | ■                       | ■                       |
| Velocity Mode (VM)  | 1,250-10,000m/s (0.0492-0.3937in/μs) |   |  | ■                       | ■                       |
| <b>Measurement Units</b>  |                                      |   |  |                         |                         |
| mm or inches  |                                      | ■   | ■  | ■                       | ■                       |
| m/s, inch/μs  |                                      |   |  | ■                       | ■                       |
| <b>Repeatability / Stability Indicator</b>                                      |                                      | ■   | ■  | ■                       | ■                       |
| <b>Display Mode</b>   |                                      |   |  |                         |                         |
| Reading   |                                      | ■   | ■  | ■                       | ■                       |
| Selected statistics   |                                      |   |  | ■                       | ■                       |
| Scan thickness bar graph  |                                      |   |  | ■                       | ■                       |
| Run Chart   |                                      |   |  | ■                       | ■                       |
| Readings and Differential   |                                      |   |  |                         | ■                       |
| B-Scan cross sectional display  |                                      |   |  |                         | ■                       |
| <b>Selectable Reading Resolution</b>  |                                      |   |  |                         |                         |
| Lo; 0.1mm, 0.01 Inch, 10m/s, or 0.001 in/μs                                     |                                      | ■   | ■  | ■                       | ■                       |
| Hi; 0.01mm, 0.001 Inch, 1m/s, or 0.0001 in/μs                                   |                                      |   |  | ■                       | ■                       |
| <b>Statistics</b>   |                                      |   |  |                         |                         |
| Number of readings, n; Mean average, $\bar{x}$ ; Standard deviation, $\sigma$ . |                                      |   |  | ■                       | ■                       |
| Lowest reading, Lo; Highest reading, Hi   |                                      |   |  | ■                       | ■                       |
| Low / high limit value  |                                      |   |  |                         | ■                       |
| Reading Range Value   |                                      |   |  |                         | ■                       |
| Nominal Value   |                                      |   |  |                         | ■                       |
| Number of readings below low limit  |                                      |   |  |                         | ■                       |
| Number of readings above high limit   |                                      |   |  |                         | ■                       |

# MTG Model Comparison

| Model Number   |   | MTG2            | MTG4            | MTG6            | MTG8            |
|--|---|-----------------|-----------------|-----------------|-----------------|
| Part Number (with transducer) <sup>1</sup>           |   | MTG2-TXC        | MTG4-TXC        | MTG6DL-TXC      | MTG8BDL-TXC     |
| Part Number (gauge only)                             |   |                 | MTG4            | MTG6DL          | MTG8BDL         |
| <b>Calibration Options</b>                           |   |                 |                 |                 |                 |
| Zero (using the integral zero disc)                  |   | ■               | ■               | ■               | ■               |
| 1 - point  |   |                 | ■               | ■               | ■               |
| 2 - point  |   |                 |                 | ■               | ■               |
| Material selection; 39 preset materials <sup>7</sup> |   |                 | ■               | ■               | ■               |
| Factory; resets to the factory calibration           |   |                 | ■               | ■               | ■               |
| Velocity (speed of sound)                            |   |                 |                 | ■               | ■               |
| Known thickness value                                |   |                 |                 | ■               | ■               |
| <b>Calibration Features</b>                          |   |                 |                 |                 |                 |
| Calibration lock; with optional PIN Lock             |   |                 |                 | ■               | ■               |
| Test calibration feature                             |   |                 |                 | ■               | ■               |
| Calibration memories: 3 programmable memories        |   |                 |                 |                 | ■               |
| Measurement outside calibration warning              |   |                 |                 |                 | ■               |
| <b>Data Logging</b>                                  |   |                 |                 |                 |                 |
| Number of readings                                   |   |                 |                 | 1,500           | 100,000         |
| Number of batches                                    |   |                 |                 | 1               | 1,000           |
| Sequential batching                                  |   |                 |                 | ■               | ■               |
| Grid batching  |   |                 |                 |                 | ■               |
| Fixed batch size mode; with batch linking            |   |                 |                 |                 | ■               |
| Obstruct entry; add 'obst' into grid location        |   |                 |                 |                 | ■               |
| Delete last reading                                  |   |                 |                 | ■               | ■               |
| Date & time stamp                                    |   |                 |                 | ■               | ■               |
| Review, clear & delete batches                       |   |                 |                 | ■               | ■               |
| Alpha numeric batch names; user definable            |   |                 |                 |                 | ■               |
| Batch review graph                                   |   |                 |                 |                 | ■               |
| <b>Data Output</b>                                   |   |                 |                 |                 |                 |
| USB to PC  |   | ■               | ■               | ■               | ■               |
| Bluetooth® to PC, Android™ & iOS devices             |   |                 |                 | ■               | ■               |
| ElcoMaster® software                                 |   |                 |                 | ■               | ■               |
| <b>Transducer Probe Type</b>                         |   |                 |                 |                 |                 |
| Dual Element   |   | ■               | ■               | ■               | ■               |
| <b>Auto Transducer Recognition</b>                   |   |                 |                 |                 |                 |
|  |   | ■               | ■               | ■               | ■               |
| <b>Auto V-path Correction</b>                        |   |                 |                 |                 |                 |
|  |   | ■               | ■               | ■               | ■               |
| <b>Battery Type<sup>8</sup></b>                      |   |                 |                 |                 |                 |
|  |   | 2 x AA          | 2 x AA          | 2 x AA          | 2 x AA          |
| <b>Battery Life<sup>8</sup></b>                      |   |                 |                 |                 |                 |
|  | Alkaline: 15 hours<br>Lithium: 28 hours | ■               | ■               | ■               | ■               |
| <b>Operating Temperature</b>                         |   |                 |                 |                 |                 |
|  | -10 to 50° (14 to 122°F)                | ■               | ■               | ■               | ■               |
| <b>Size (w x h x d)</b>                              |   |                 |                 |                 |                 |
|  | 145 x 73 x 37mm (5.7 x 2.84 x 1.46")    | ■               | ■               | ■               | ■               |
| <b>Gauge Weight (including batteries)</b>            |   |                 |                 |                 |                 |
|  |   | 210g<br>(7.4oz) | 210g<br>(7.4oz) | 210g<br>(7.4oz) | 210g<br>(7.4oz) |

<sup>1</sup> MTG supplied with 5MHz ¼" right angle transducer

<sup>2</sup> Internet connection required

<sup>3</sup> The Elcometer MTG range is extendable within 60 days from date of purchase, free of charge to two years via [www.elcometer.com](http://www.elcometer.com)

<sup>4</sup> User selectable default setting in scan mode is 16Hz

<sup>5</sup> Dependent on the material being measured and the transducer being used

<sup>6</sup> On steel

<sup>7</sup> See page 22 for lists of preset materials

<sup>8</sup> Supplied with Alkaline, Lithium and rechargeable can be used with the gauges, continuous use at 1 reading per second

STANDARDS MTG: [ASTM E797](#), [EN 14127](#), [EN15317](#)

# PTG Model Comparison

| Model Number   |                                |  |   | PTG6                    | PTG8                    |
|--|--------------------------------|--|---|-------------------------|-------------------------|
| Part Number (with transducer) <sup>1</sup>   |                                |  |   | PTG6DL-TXC              | PTG8BDL-TXC             |
| Part Number (gauge only)   |                                |  |   | PTG6                    | PTG8BDL                 |
| Easy to use menu structure in multiple languages                                   |                                |  |   | ■                       | ■                       |
| Tough, impact, waterproof and dust resistant equivalent to IP54                    |                                |  |   | ■                       | ■                       |
| Bright colour screen with permanent backlight                                      |                                |  |   | ■                       | ■                       |
| Ambient light sensor, with adjustable brightness                                   |                                |  |   | ■                       | ■                       |
| Scratch and solvent resistant display; 2.4" (6cm) TFT                              |                                |  |   | ■                       | ■                       |
| Large positive feedback buttons  |                                |  |   | ■                       | ■                       |
| USB power supply via PC  |                                |  |   | ■                       | ■                       |
| Gauge software updates <sup>2</sup> via ElcoMaster <sup>®</sup> Software           |                                |  |   | ■                       | ■                       |
| 2 year gauge warranty <sup>3</sup>   |                                |  |   | ■                       | ■                       |
| Limits: 40 definable audible & visual pass/fail warnings                           |                                |  |   |                         | ■                       |
| Measurement Rate   |                                |  |   | 4, 8, 16Hz <sup>4</sup> | 4, 8, 16Hz <sup>4</sup> |
| Measurement Mode   | Range <sup>5</sup>             | Accuracy <sup>6</sup>                          |   |                         |                         |
| Echo Echo (EE)   | 0.15-10.15mm<br>(0.006-0.400") | ±0.015mm (0.15-2.99mm)<br>±0.5% (3.00-10.15mm) | ±0.0006" (0.006-0.117")<br>±0.5% (0.118-0.400") | ■                       | ■                       |
| Interface Echo (IE)  | 1.65-25.40mm<br>(0.065-1.000") | ±0.015mm (1.65-2.99mm)<br>±0.5%(3.00-25.4mm)   | ±0.0006" (0.065-0.117")<br>±0.5% (0.118-1.000") | ■                       | ■                       |
| Plastic Mode (PLAS)  | 0.15-5.00mm<br>(0.006-0.197")  | ±0.015mm (0.15-2.99mm)<br>±0.5% (3.00-5.00mm)  | ±0.0006" (0.006-0.117")<br>±0.5% (0.118-0.197") | ■                       | ■                       |
| Measurement Units  |                                |  |   |                         |                         |
| mm or inches   |                                |  |   | ■                       | ■                       |
| Repeatability / Stability Indicator  |                                |  |   | ■                       | ■                       |
| Display Mode   |                                |  |   |                         |                         |
| Reading  |                                |  |   | ■                       | ■                       |
| Selected statistics  |                                |  |   |                         | ■                       |
| Scan thickness bar graph   |                                |  |   |                         | ■                       |
| Run Chart  |                                |  |   |                         | ■                       |
| Readings and Differential  |                                |  |   |                         | ■                       |
| B-Scan cross sectional display   |                                |  |   |                         | ■                       |
| Selectable Reading Resolution  |                                |  |   |                         |                         |
| Lo; 0.1mm, 0.01 Inch, 10m/s, or 0.001 in/μs  |                                |  |   | ■                       | ■                       |
| Hi; 0.01mm, 0.001 Inch, 1m/s, or 0.0001 in/μs                                      |                                |  |   | ■                       | ■                       |
| Statistics   |                                |  |   |                         |                         |
| Number of readings, n; Mean average, $\bar{x}$ ;<br>Standard deviation, $\sigma$ . |                                |  |   |                         | ■                       |
| Lowest reading, Lo; Highest reading, Hi  |                                |  |   |                         | ■                       |
| Low / high limit value   |                                |  |   |                         | ■                       |
| Reading Range Value  |                                |  |   |                         | ■                       |
| Nominal Value  |                                |  |   |                         | ■                       |
| Number of readings below low limit   |                                |  |   |                         | ■                       |
| Number of readings above high limit  |                                |  |   |                         | ■                       |

# PTG Model Comparison

| Model Number   |   | PTG6            | PTG8            |
|--|---|-----------------|-----------------|
| Part Number (with transducer) <sup>1</sup>           |   | PTG6DL-TXC      | PTG8BDL-TXC     |
| Part Number (gauge only)                             |   | PTG6            | PTG8            |
| <b>Calibration Options</b>                           |   |                 |                 |
| 1 - point  |   | ■               | ■               |
| 2 - point  |   | ■               | ■               |
| Material selection; 39 preset materials <sup>7</sup> |   | ■               | ■               |
| Factory; resets to the factory calibration           |   | ■               | ■               |
| Velocity (speed of sound)                            |   | ■               | ■               |
| <b>Calibration Features</b>                          |   |                 |                 |
| Calibration lock; with optional PIN Lock             |   | ■               | ■               |
| Test calibration feature                             |   | ■               | ■               |
| Calibration memories: 3 programmable memories        |   |                 | ■               |
| Measurement outside calibration warning              |   |                 | ■               |
| <b>Data Logging</b>                                  |   |                 |                 |
| Number of readings                                   |   |                 | 100,000         |
| Number of batches                                    |   |                 | 1,000           |
| Sequential batching                                  |   |                 | ■               |
| Grid batching  |   |                 | ■               |
| Fixed batch size mode; with batch linking            |   |                 | ■               |
| Obstruct entry; add 'obst' into grid location        |   |                 | ■               |
| Delete last reading                                  |   |                 | ■               |
| Date & time stamp                                    |   |                 | ■               |
| Review, clear & delete batches                       |   |                 | ■               |
| Alpha numeric batch names; user definable            |   |                 | ■               |
| Batch review graph                                   |   |                 | ■               |
| <b>Data Output</b>                                   |   |                 |                 |
| USB to PC  |   | ■               | ■               |
| Bluetooth® to PC, Android™ & iOS devices             |   |                 | ■               |
| ElcoMaster® software                                 |   | ■               | ■               |
| <b>Transducer Probe Type</b>                         |   |                 |                 |
| Single Element                                       |   | ■               | ■               |
| <b>Auto transducer recognition</b>                   |   | ■               | ■               |
| <b>Battery Type<sup>8</sup></b>                      |   | 2 x AA          | 2 x AA          |
| <b>Battery Life<sup>8</sup></b>                      | Alkaline : 15 hours<br>Lithium : 28 hours | ■               | ■               |
| <b>Operating Temperature</b>                         | -10 to 50°C (14 to 122°F)                 | ■               | ■               |
| <b>Size (w x h x d)</b>                              | 145 x 73 x 37mm (5.7 x 2.84 x 1.46")      | ■               | ■               |
| <b>Gauge weight (including batteries)</b>            |   | 210g<br>(7.4oz) | 210g<br>(7.4oz) |

<sup>1</sup> PTG supplied with 15MHz ¼" Microdot right angle single element transducer

<sup>2</sup> Internet connection required

<sup>3</sup> The Elcometer PTG range is extendable within 60 days from date of purchase, free of charge to two years via [www.elcometer.com](http://www.elcometer.com)

<sup>4</sup> User selectable default setting in scan mode is 16Hz

<sup>5</sup> Dependent on the material being measured and the transducer being used

<sup>6</sup> On steel

<sup>7</sup> See page 22 for lists of preset materials

<sup>8</sup> Supplied with Alkaline, Lithium and rechargeable can be used with the gauges, continuous use at 1 reading per second

STANDARDS PTG: [EN 14127](#), [EN 15317](#)

Elcometer NDT offer a state-of-the-art range of Ultrasonic Gauge transducers.

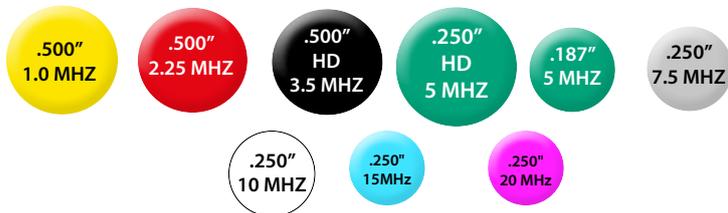
When selecting a transducer it is important to choose one which will meet the specific application's needs. The type of material to be tested, the measurement range, the shape of the substrate (curved or flat) and the size of the material should be considered when selecting the appropriate transducer.



◀ **Single Element**  
Single element transducers feature a single crystal that sends and receives the pulse and are made for high frequency use.



◀ **Dual Element**  
A dual element transducer consists of two crystal elements housed in the same case, separated by an acoustic barrier.



## What connection does it have?

**Potted:** The transducer is strongly secured to the cable at the factory.

**Microdot:** The transducer is attached using two small screw type connectors, enabling replacement of the cable in case of accidental damage or wear.

All transducers are intelligent; when connected to the MTG or PTG range, the gauge instantly recognises what transducer has been attached.

## Selecting the right transducer

Selecting the right transducer for your application is essential to maximise performance.

## Choosing the right frequency and diameter

Different materials have different acoustic properties. In some a sound wave can travel easily, in others it is absorbed so achieving an accurate measurement can be difficult. To overcome this it is essential to choose the right frequency and diameter for your material.

High frequency transducers are ideal for precision measurement because the pulse they emit is highly focused, reducing the risk of return echoes outside of the measurement area. The high frequency and shorter wavelength also lends itself to measuring thin materials.

Low frequency transducers are designed for materials that absorb sound like plastics or composites. The pulse penetrates deeply into the material ensuring a strong return echo and therefore a measurement.

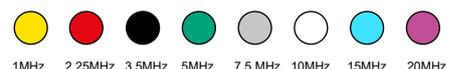
This high penetration also means that they are suitable for high material thicknesses.

Larger diameter probes feature larger crystals which transmit and receive the sound wave. A large crystal transmitter will produce a larger sound wave and a larger receiving crystal will be more sensitive.

As a result, larger transducers tend to have better penetration characteristics than the smaller ones.

If this extended range is not required, the smaller transducers can be placed more precisely and in hard to reach areas such as narrow grooves in a material.

CT = Coating Thickness  
HD = High Damping  
S = Standard





## Calibration Standards and Ultrasonic Couplant

Calibration blocks are available as a set or individually, allowing users to select the most appropriate thickness for their application. Elcometer calibration standards are manufactured from 4340 steel to a tolerance of  $\pm 0.1\%$  of the nominal thickness and are supplied complete with calibration certificates.

| Part Number                      | Description  |
|----------------------------------|--|
| <b>Calibration Standard Sets</b> |  |
| <b>T920CALSTD-SET1</b>           | Calibration Standard Set;<br>Nominal Thickness; 2-30mm (0.08-1.18") <sup>1,2</sup><br><i>Comprising of; 2, 5, 10, 15, 20, 25 &amp; 30mm (0.08, 0.20, 0.39, 0.59, 0.79, 0.98 &amp; 1.18"), complete with holder and calibration certificate.</i>          |
| <b>T920CALSTD-SET2</b>           | Calibration Standard Set;<br>Nominal Thickness; 40 - 100mm (1.57 - 3.94") <sup>1,2</sup><br><i>Comprising of; 40, 50, 60, 70, 80, 90 &amp; 100mm (1.57, 1.97, 2.36, 2.76, 3.15, 3.54 &amp; 3.94"), complete with holder and calibration certificate.</i> |
| <b>T920CALSTD-HLD</b>            | Calibration Holder;<br>for thicknesses up to 100mm (3.94").  |

| Part Number                      |                        |   |
|----------------------------------|------------------------|---|
| Individual Calibration Standards | Nominal Thickness (mm) | Nominal Thickness (Inches) <sup>1</sup> |
| <b>T920CALSTD-2</b>              | 2                      | 0.078                                   |
| <b>T920CALSTD-5</b>              | 5                      | 0.196                                   |
| <b>T920CALSTD-10</b>             | 10                     | 0.393                                   |
| <b>T920CALSTD-15</b>             | 15                     | 0.590                                   |
| <b>T920CALSTD-20</b>             | 20                     | 0.787                                   |
| <b>T920CALSTD-25</b>             | 25                     | 0.984                                   |
| <b>T920CALSTD-30</b>             | 30                     | 1.181                                   |
| <b>T920CALSTD-40</b>             | 40                     | 1.574                                   |
| <b>T920CALSTD-50</b>             | 50                     | 1.966                                   |
| <b>T920CALSTD-60</b>             | 60                     | 2.362                                   |
| <b>T920CALSTD-70</b>             | 70                     | 2.755                                   |
| <b>T920CALSTD-80</b>             | 80                     | 3.149                                   |
| <b>T920CALSTD-90</b>             | 90                     | 3.543                                   |
| <b>T920CALSTD-100</b>            | 100                    | 3.937                                   |

## Ultrasonic Couplant & Adaptors

Elcometer has developed a viscous gel to work on both horizontal and vertical surfaces. The temperature range for regular couplant is -15 to 104°C (5 to 220°F). The Elcometer high temperature gel has a range of up to 398°C (750°F) for use with high temperature transducers.



| Part Number  | Description  |
|--------------|--|
| T92015701    | Ultrasonic Couplant; 120ml (4fl oz)                    |
| T92024034-7  | Ultrasonic Couplant; 300ml (10fl oz)                   |
| T92024034-3  | Ultrasonic Couplant; 3.8 litres (1 US Gallon)          |
| T92015701-5  | Ultrasonic Couplant; 120ml (4fl oz), Pack of 5 Bottles |
| T92024034-8  | Ultrasonic Couplant; 500ml (17fl oz)                   |
| T92024034-9  | High Temperature Couplant*; 60ml (2fl oz)              |
| T92024034-10 | High Temperature Couplant*; 60ml (2fl oz), Pack of 2   |

## Transducer Adaptor

These adaptors allow single & dual element, 'non-intelligent' and other transducers with lemo connectors from Elcometer and other manufacturers, to be used with the MTG & PTG product range.



| Part Number                              | Description        | Suitable for |      |      |      |      |      |
|--|--------------------|--------------|------|------|------|------|------|
|  |                    | MTG2         | MTG4 | MTG6 | MTG8 | PTG6 | PTG8 |
| T92024911<br>Dual Element <sup>3</sup>   | Transducer Adaptor | •            | •    | •    | •    |      |      |
| T92025657<br>Single Element <sup>4</sup> | Transducer Adaptor |              |      |      |      | •    | •    |

<sup>1</sup> Imperial values for information purposes only. Calibration standards are manufactured and measured in millimetres.

<sup>2</sup> PTG nominal thickness is only 2 - 25mm.

<sup>3</sup>This adaptor allows dual element, 'non-intelligent' and other transducers with Lemo Connectors from Elcometer and other manufacturers to be used with the MTG product range. See website for the full list of transducers [www.elcometer.com](http://www.elcometer.com).

<sup>4</sup>This adaptor allows single element, 'non-intelligent' and other transducers with Lemo Connectors from Elcometer and other manufacturers to be used with the PTG product range. See website for the full list of transducers [www.elcometer.com](http://www.elcometer.com).

\*For use with high temperature transducers up to 398°C (750°F)

# Velocity chart of Preset Materials

Velocity chart for the preset choice of 39 materials in the MTG4, MTG6, MTG8, PTG6 & PTG8

| Elcometer Material Number | Material Description (Chemical Symbol/ Grouping) | Material Name                    | Sound Velocity (m/sec) | Sound Velocity (in/μsec) | Source of Value |
|---------------------------|--|----------------------------------|------------------------|--------------------------|-----------------|
| 1                         | Fe   | Iron (soft)                      | 5960                   | 0.235                    | NPL             |
| 2                         | Fe   | Iron Cast                        | 4990                   | 0.196                    | NPL             |
| 3                         | Al   | Aluminium (7075-T6)              | 6350                   | 0.250                    | ASNT            |
| 4                         | Ti   | Titanium                         | 6100                   | 0.240                    | ASNT            |
| 5                         | Mg   | Magnesium                        | 5790                   | 0.228                    | ASNT            |
| 6                         | Ni   | Nickel                           | 5630                   | 0.222                    | ASNT            |
| 7                         | W  | Tungsten                         | 5180                   | 0.204                    | ASNT            |
| 8                         | Cu   | Copper                           | 4660                   | 0.183                    | ASNT            |
| 9                         | Zn   | Zinc                             | 4190                   | 0.165                    | NPL             |
| 10                        | Ag   | Silver                           | 3600                   | 0.142                    | Industry        |
| 11                        | Sn   | Tin                              | 3380                   | 0.133                    | NPL             |
| 12                        | Pt   | Platinum                         | 3260                   | 0.128                    | NPL             |
| 13                        | Au   | Gold                             | 3240                   | 0.128                    | NPL             |
| 14                        | Cd   | Cadmium                          | 2780                   | 0.109                    | NPL             |
| 15                        | Bi   | Bismuth                          | 2180                   | 0.086                    | Industry        |
| 16                        | Pb   | Lead                             | 2160                   | 0.085                    | ASNT            |
| 17                        | Cobalt-chromium Alloy                            | Stellite                         | 6990                   | 0.275                    | Industry        |
| 18                        | Iron Alloy                                       | Steel (Carbon 1018)              | 5920                   | 0.233                    | Industry        |
| 19                        | Iron Alloy                                       | Steel (Alloy 4340)               | 5850                   | 0.230                    | Industry        |
| 20                        | Nickle-chromium Alloy                            | Inconel (625)                    | 5820                   | 0.229                    | Industry        |
| 21                        | Silver Alloy                                     | Stainless Steel, (Austentic 304) | 5660                   | 0.233                    | ASNT            |
| 22                        | Copper Alloy                                     | Constantan                       | 5180                   | 0.204                    | NPL             |
| 23                        | Copper-nickel Alloy                              | German Silver                    | 4760                   | 0.187                    | Industry        |
| 24                        | Copper-zinc Alloy                                | Brass (Naval)                    | 4430                   | 0.174                    | ASNT            |
| 25                        | Non-metal  | Glass (Quartz)                   | 5930                   | 0.233                    | ASNT            |
| 26                        | Non-metal  | Glass (Crown)                    | 5660                   | 0.223                    | NPL             |
| 27                        | Non-metal  | Glass (Flint)                    | 5260                   | 0.207                    | NPL             |
| 28                        | Non-metal  | Porcelain                        | 5840                   | 0.230                    | Industry        |
| 29                        | Non-metal  | Plexiglas                        | 2760                   | 0.109                    | Industry        |
| 30                        | Non-metal  | Glass Fibre                      | 2740                   | 0.108                    | Industry        |
| 31                        | Non-metal  | Nylon                            | 2680                   | 0.106                    | NPL             |
| 32                        | Non-metal  | Epoxy Resin                      | 2540                   | 0.100                    | Industry        |
| 33                        | Non-metal  | Polystyrene                      | 2350                   | 0.093                    | NPL             |
| 34                        | Non-metal  | PVC                              | 2330                   | 0.092                    | NPL             |
| 35                        | Non-metal  | Rubber (Butyl)                   | 1830                   | 0.072                    | Industry        |
| 36                        | Non-metal  | Rubber (Natural)                 | 1600                   | 0.063                    | NPL             |
| 37                        | Non-metal  | Polyurethane                     | 1780                   | 0.070                    | Industry        |
| 38                        | Non-metal  | Teflon                           | 1400                   | 0.055                    | NPL             |
| 39                        | Non-metal  | Water                            | 1490                   | 0.059                    | ASNT            |

NPL = National Physics Laboratory  
ASNT = The American Society for Non destructive Testing  
Industry = Industry knowledge

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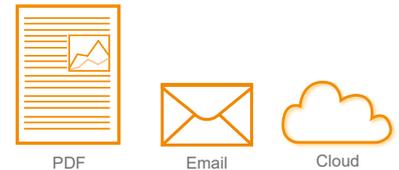
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- Provides instant data analysis remotely and emails key data, including readings, notes & photographs, etc. - generating .pdf reports<sup>2</sup> from the field to the office

For more information please visit our website at [elcometer.com](http://elcometer.com).



<sup>1</sup> Available on Android only

<sup>2</sup> Available on iOS devices only



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