



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

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I-E

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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.

PTG Model Comparison

Model Number				PTG6	PTG8
Part Number (with transducer) ¹				PTG6-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 ² via ElcoMaster [®] Software				■	■
2 year gauge warranty ³				■	■
Limits: 40 definable audible & visual pass/fail warnings					■
Measurement Rate				4, 8, 16Hz ⁴	4, 8, 16Hz ⁴
Measurement Mode	Range ⁵	Accuracy ⁶			
Echo Echo (EE)	0.15-10.15mm (0.006-0.400")	±0.015mm (0.15-2.99mm) ±0.5% (3.00-10.15mm)	±0.0006" (0.006-0.117") ±0.5% (0.118-0.400")	■	■
Interface Echo (IE)	1.65-25.40mm (0.065-1.000")	±0.015mm (1.65-2.99mm) ±0.5%(3.00-25.4mm)	±0.0006" (0.065-0.117") ±0.5% (0.118-1.000")	■	■
Plastic Mode (PLAS)	0.15-5.00mm (0.006-0.197")	±0.015mm (0.15-2.99mm) ±0.5% (3.00-5.00mm)	±0.0006" (0.006-0.117") ±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} ; Standard deviation, σ .					■
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) ¹		PTG6-TXC	PTG8BDL-TXC
Part Number (gauge only)		PTG6	PTG8
Calibration Options			
1 - point		■	■
2 - point		■	■
Material selection; 39 preset materials ⁷		■	■
Factory; resets to the factory calibration		■	■
Velocity (speed of sound)		■	■
Calibration Features			
Calibration lock; with optional PIN Lock		■	■
Test calibration feature		■	■
Calibration memories: 3 programmable memories			■
Measurement outside calibration warning			■
Data Logging			
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			■
Data Output			
USB to PC		■	■
Bluetooth® to PC, Android™ & iOS devices			■
ElcoMaster® software		■	■
Transducer Probe Type			
Single Element		■	■
Auto transducer recognition		■	■
Battery Type⁸		2 x AA	2 x AA
Battery Life⁸	Alkaline : 15 hours Lithium : 28 hours	■	■
Operating Temperature	-10 to 50°C (14 to 122°F)	■	■
Size (w x h x d)	145 x 73 x 37mm (5.7 x 2.84 x 1.46")	■	■
Gauge weight (including batteries)		210g (7.4oz)	210g (7.4oz)

¹ PTG supplied with 15MHz ¼" Microdot right angle single element transducer

² Internet connection required

³ The Elcometer PTG range is extendable within 60 days from date of purchase, free of charge to two years via www.elcometer.com

⁴ User selectable default setting in scan mode is 16Hz

⁵ Dependent on the material being measured and the transducer being used

⁶ On steel

⁷ See page 22 for lists of preset materials

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