😑 elcometeເ 208 Ultrasonic Thickness Gauge



Technical Specifications

The Elcometer Model 208 and 208/DL are simple to use hand-held Ultrasonic Thickness Gauges with the capability to measure material thickness whilst eliminating the thickness of the coating (on metal substrates only).

- Ignores the coating thickness •
- Hand held and robust •
- Data output •
- Backlight display .
- ElcoMaster[™] and EDTS⁺ Excel link software supplied free of charge with • 208DL for report generation and archiving.

0.63 - 500mm
2.54 –25.4mm - in Echo-to-Echo Mode
1250 - 10000m/s
± 0.01mm
0.01mm
millimetres and inches
-20 to 50°C
Sealed membrane
Digit Liquid Crystal Display with Backlight
AA 1.5V Alkaline or 1.2V NiCad cell
295g (10oz)
63.5 x 120.6 x 31.75mm
Extruded aluminium

Features

Description	Elcometer 208	Elcometer 208DL
Echo-to-Echo Mode	•	•
High Speed Scan Mode	•	•
Alarm Mode	•	•
Data Output	•	•
Data Logging		•
EDTS ⁺ Excel Link	\diamond	•
EDCS ⁺ Software	\diamond	\diamond
Part Number	C2081	C208DL1
Included		

Part Numbers

Accessories	ccessories 5MHz High Damped Tranducer - For steel applications						
	7.5 MHz High Damped Tranducer - aliminium, stainless steel and titatium applications	T92016968					
	Ultrasonic Couplant (160ml)	T92015701					
	Test Wedge 2- 25mm	TX9205243-					
	Test Wedge 30- 100mm	T9205270-					
The Elcometer	208 and Elcometer 208/DL are not supplied with a tranducer, please either select the specific	2					
Elcometer 208	tranducer above or select from the Tranducer Selection Table						



Elcometer offers a complete range of transducer probes, allowing you to select the most appropriate one for your application.

1. Select the measurement range

2. Choose the required material

3. Select the probe type

Note : Part Numbers in bold are Ex Stock UK

Measurement Range	Material								Probe Type							Part				
in steel (mm)													eg C)		Ę	Number (Bold & Highlighted			(mn	(mm)
			e	s Fibre			ic	c		robe	le Probe		p. (650 d	olution	ecificatio	are Ex Stock UK)	(Mhz)	qe	ameter (r	Diameter
	Cast Iron	Plastic	Blass Fib l	Thin Glas	Steels	slass	Thin Plast	Aluminiur	otted	Straight P	Right Ang	Aicrodot	High Tem	Extra Res	Exxon Sp		-requency	Colour Co	Crystal Di	Vearface
3.8-50.8	•	•	•	_	0)	0	<u> </u>	~	•	•	<u> </u>	2		<u> </u>	<u> </u>	T92015620	1	brown	12.7	15.88
	•	٠	٠						•		٠					T92015621		or		
	•	٠	٠							٠		٠				T92015622		yellow		
	•	٠	•								•	٠				T92015623				
1.5-101.6	٠	•		٠					•	٠						T92015626	2.25	red	6.35	9.53
	٠	•		٠					٠		٠					T92015627				
	•	٠		٠						٠	٠	٠				T92015628				
	•	٠		٠							٠	٠				T92015629				
	•	٠		٠					•	٠			٠			T92015631				
	•	•		•						٠		٠	•			T92015632				
1.5-127.0	•	•		•					•	•						192015633	2.25	red	12.7	15.88
	•	٠		٠					•		٠					T92015634				
	•	٠		٠						٠		٠				T92015635				
	•	٠		٠						•	٠	•				T92015636				
	•	•		•					•	٠			•			192015637				
4 5 50 0	•	•		•						•		٠	•			192015638	_		4 70	0.05
1.5-50.8					•	•	•		•	•						T92015641	5	green	4.76	6.35
					•	•	•		•		•	•				T92015642				
1 02-152 /					-	-	-			_	•	•				T92015044	5	aroon	6 35	0.53
1.02-132.4					•	•				•	•					T02015646	5	green	0.55	9.00
					•				•	•	•	•				T02015647				
										•	•					T92015047				
										•	•	•	•			T92015040				
					•	•	•		•	•		•	•			T92015656				
1.27-507.7					•	•	•		•	•	•	-	-			T92015657	2.25	areen	12.7	15.88
					•	•	•			•	•					T92015658		3		
					•	•				•		•				T92015659				
					•	•	•			•	•	•				T92015660				
					•	•	•		•	•	•	•	•			T92015661				
					•	•	•			•	•	•	•			T92015662				
1.02-152.4					٠	٠	٠	٠	٠	٠	٠	٠			٠	T92015663	7.5	grey	6.35	9.53
					•	•	•	•	•	•	•	•			•	T92015664		or		
					•	•	•	•		•	٠	٠			•	T92015665		silver		
					•	•	•	•		•	•	•			•	T92015666				
0.635-152.4					٠	٠	٠	٠	٠	٠	٠	٠		٠		T92015667	7.5	blue	6.35	9.53
					•	•	•	•	•	٠	٠	٠		٠		T92015668				
					•	•	•	•		٠	٠	•		•		T92015669				
	1				•	•	٠	•		٠	•	•		٠		T92015670				
1.02-152.4	1				٠			٠	٠	٠						T92015671	10	white	6.35	9.53
	1				٠			٠	•		٠					T92015672				
	1				٠			٠		٠		٠				T92015673				
					٠			٠			٠	٠				T92015674				
1.52-254.0					•			٠	٠	٠						T92015676	10	white	12.7	15.88
	1				•			٠	•		٠					T92015677				
	1				٠			٠		٠		٠				T92015678				
	1				•			٠			٠	٠				T92015679	l	l		



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Material Thickness

The thickness of materials cannot always be determined by direct measurement as access to both sides is not always possible.

The effects of corrosion and erosion at the back of a metal panel may reduce its thickness significantly yet not affect the front surface. Pipelines, for example, may appear corrosion free on the outside but can be eroded by the flow of material on the inside.

Machined or cast items may have thin walls that cannot be determined by callipers or other non-destructive tests.

The Elcometer Ultrasonic Thickness Gauge Features Explained

- *Interface-to-Echo Mode* In interface-to-echo mode, the gauge can take readings on thicker plastics and other materials between 1.65mm and 25.4mm
- *Echo-to-Echo Mode* Measurements can be taken on materials as thin as 0.15mm (0.006 inches). In echo-toecho mode, the user can take measurements on pre-coated materials without having to remove the coating prior to measurement i.e. the gauge ignores the coating thickness.
- *High Speed Scan Mode* Identifies the minimum thickness point over a large area by moving the transducer over the surface. While the transducer is in contact with the material being measured the smallest value is held in memory and displayed when scanning is complete.
- PLAS ModeSpecifically for use when measuring thin plastics. Please note that to use this mode, a
special Graphite Delay Line must be purchased, Part Number T92016871.
- *Differential Mode* Displays the positive or negative difference between a pre-set nominal (target) thickness value and the actual measured value.
- Alarm Mode Allows the user to set a target so that an audible and visual alarm operates when taking measurements. If the measurement falls below a pre-set nominal (target) value a red LED will light and the bleeper sounds. A green LED will light to indicate an acceptable thickness.
- **Data Output** Allows the user to send data direct to a printer or PC.
- Data-Logging
 A storage capacity of 1000 measurements 10 files consisting of 100 sequential storage locations. Allows the user to send data direct to a printer or PC.
- **EDTS+ Excel link Software** PC data transfer utility including generator of ASCII files and "data drop" add in for Microsoft Excel[™] spreadsheets.
- **EDCS+ Software** Stand alone data management program with advance facilities for archiving, reporting, analysis and data export.

