



CG30, CG50 & CG50DL Corrosion Thickness Gauge



Product Description

The CG30, CG50 and CG50DL are easy to use, versatile gauges, quickly calibrated on site by the user to give reliable, accurate thickness measurements on a wide variety of material substrates.

Taking 16 readings per second the high speed scan mode allows the user to quickly scan an area of material for defects or to identify its thinnest point, ideal for pipelines or large test surfaces.

The differential mode on the CG50 & CG50DL allows the user to select a nominal thickness value, the gauge will then display the positive or negative (\pm) difference from the nominal value entered.

The built-in minimal thickness alarm mode illuminates a red LED and an audible alarm sounds when a measurement falls below the user defined target value. The CG50DL offers full data logging and stores up to 1,000 readings. Complete with free data management software, readings can be directly downloaded into spreadsheets using the RS232 dataport, for full analysis and reporting.

Advantages

- Multi calibration options: 1 point, 2 point and speed of sound for optimal accuracy
- High speed scan mode: 16 readings per second
- Differential and minimal thickness alarm modes
- Data output and storage: 1,000 readings and wave forms
- Wide range of interchangeable transducers
- Easy to use menu structure
- Tough, impact, water, dust & petroleum product resistant
- Up to 200 hours battery life



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Technical Specification

Model & Part Number	CG30	CG50	CG50DL
Material thickness digits display	•	•	•
Measurement Mode		PE	
Measurement Rate :	Manual:	4 readings per second	
	Scan Mode:	16 readings per second	
Measuring Range		0.63 - 500mm	
Measurement Accuracy		±0.01mm	
Measurement Resolution		0.01mm	
Velocity Calibration Range		1250 - 10,000m/s	
Additional Features:			
High Speed scan mode	•	•	•
Differential mode		•	•
Minimum thickness alarm mode		•	•
Data Logging			1,000 readings, sequential
Calibration Options		single, two point & velocity	
Transducer Probe Type		dual element	
Transducer Frequency Range		1 - 10MHz	
V-path / dual path error correction		automatic	
Probe zero		manual (via integrated probe disk)	
Display		12.7mm (0.5 inch) high digits	
Units (selectable)		mm or inches	
LED Backlight		on / off / auto	
Repeatability / Stability Indicator	•	•	•
Battery Type		2 x AA alkaline	
Battery Life (approximate)		200 hours	
Low Battery Indicator	•	•	•
Battery Save Mode		auto	
Operating Temperature		-30 to 50°C	
Size (w x h x d)		63.5 x 114.3 x 31.5mm	
Weight (including batteries)		284g	
Aluminium case design	•	•	•
with gasket sealed end caps, waterproof membrane keypad			
Transducer Connector Type		LEMO	
RS232 Interface			Download to Computer

Packing List

- Elcometer NDT CG30 gauge / Elcometer NDT CG50DL gauge / Elcometer NDT CG50DL gauge
- Couplant
- Carry Case
- User Manual
- Test Certificate
- 2 x AA Batteries
- Software, Transfer Cable (for Elcometer NDT CG50DL gauge unit only)

Accessories

Cables & Adapters

TL-24030-6	T/Cable: 4' Dual Lemo to Lemo
TL-24030-7	T/Cable: 4' Dual Lemo to Microdot
TL-24030-9	T/Cable: 4' Dual Lemo to M/dot, HT Arm
TL-24031	RS232 Cable (6'); DB-9 to Lemo
TL-24032	USB to Serial Adapter

Couplant

TC-24034-1	Couplant: Standard; 4oz Bottle
TC-24034-2	Couplant: Standard; 12oz Bottle
TC-24034-3	Couplant: Standard; 1 Gallon
TC-24034-4	Couplant: Hi-Temp 343oC; 2oz Tube
TC-24034-5	Couplant: Hi-Temp 482oC; 2oz Tube

