

A/B Scan Echo-Echo Ultrasonic Thickness Gauge



Color OLED 320x240 Pixels Display

Live Simultaneous Color A-Scan and Thickness Display

Control of Gain, Blanking, Gate, Range, Delay, RF and Rectify Modes

Time-based B-Scan Display

Echo-Echo Mode(Thru Paint & Coatings)

Stores 100,000 Readings and 1000 waveform

Technical Specifications

Feature	TG-5000	TG-5000D	TG-5000DL	Data Logger Option
Color Display	✓	✓	✓	
Live A-Scan	✓	✓	✓	
Time-based B-Scan	✓	✓	✓	
Control of Gain, Blanking, Gate, Range, Delay, RF and Rectify Modes	✓	✓	✓	
Echo-Echo Mode (Thru Paint & Coatings)	X	✓	✓	
Data Logger	X	X	✓	✓
DataView Software	X	X	✓	✓

Instrument Specifications

Display Type	2.4" color OLED, 320 X 240 pixels, contrast 10,000:1
Operating Principle	Pulse echo with dual element transducers
Measuring Range	0.50mm to 508mm(0.02" to 20.00"), depending on material, probe and surface condition
Measuring Resolution	Selectable 0.01mm, 0.1mm(selectable 0.001", 0.01")
Units	Inch or Millimeter
Rectify Modes	RF+, RF-, HALF+, HALF-, FULL
Display Mode	Normal, Minimum / Maximum capture, DIFF/RR%, A-Scan, B-Scan
V-Path Correction	Automatic
Update Rate	Selectable 4Hz, 8Hz, 16Hz
Material Velocity Range	500 to 9999m/s (0.0197 to 0.3937in/us)
Languages	English
Alarm Settings	Minimum and Maximum alarms. Range of 0.25 mm to 508 mm (0.010" to 20.00"). Dynamic waveform color change on alarm
Power Requirements	2 AA size batteries
Operating Time	Approximately 40 hours
Instrument Shut-off	Selectable ALWAYS ON or AUTO OFF after 5, 10, 20 minutes of inactivity
Operating Temperature	-10°C to +50°C (+10°F to +120°F)
Size	153mm X 76mm X 37mm(H X W X D)
Weight	280g including batteries

Data Logger Option Features	
Capacity	100,000 readings, 1000 waveforms,400 files
File Structure	Grid file
Rows X Columns	21 X 12
Communication Port	USB 2.0 (Full Speed) port
Software	DataView PC software

Standard accessories

Thickness Gauge	1
Probe	1
Alkaline Battery	2
Couplant	1
Carrying Case	1
Operation Manual	1
USB Cable	1(Only TG-5000DL)
Software CD	1(Only TG-5000DL)

Optional accessories

High-temperature Probe	Cast Iron Probe
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Small Probe	Mini Probe
Probe Cable	Stepped Calibration Block
Rubber Sheath	Storage Option(Only TG-5000DL)

TG-5000 Series Probe/Transducer Specifications							
Model	PT08	TC510	PT12	ZT12	PT06	PT04	GT12
Type	TG-5000 Standard	TG-5000D/ DL Standard	Standard	Cast iron	Small tube	Fingertip	High-Temperature
Frequency	5MHz	5MHz	5MHz	2MHz	7.5MHz	10MHz	5MHz
Contact Diameter	11mm	13.5mm	13.5mm	17mm	8mm	6mm	15mm
Measurement Range	0.8 to 100.0mm	1.2 to 200.0mm	1.0 to 200.0mm	4.0 to 508.0mm	0.8 to 30.0mm	0.7 to 12.0mm	4.0 to 80.0mm
Temperature Range	-10 to 70℃	-10 to 70℃	-10 to 70℃	-10 to 70℃	-10 to 70℃	-10 to 70℃	-20 to 300℃