

Ultrasonic Thickness Gauges

Extech offers Thickness Gauges designed in compact, handheld, rugged housing ideal for field use. The ultrasonic technology allows for non-destructive thickness measurements for primarily steel structures. Select models with digital thickness readout or live color waveform and datalogging function.

Applications:

- Boiler Tubes - Pressure Vessels
- Storage Tanks - Ship Hulls
- Containers - Home Oil Tanks - Pipes - Steam Lines
- Compressors - Shafts - Bridge Pins - Bond Inspection



Common Features

- Wide measurement range: 5MHz probe: 0.040" to 20" of steel 10MHz probe: 0.020" to 20" of steel (optional)
- · Sunlight readable dot-matrix display with backlight
- Multiple transducer options for high temperature and difficult to measure materials
- Fast minimum feature to capture minimum thicknesses
- On screen display of 8 languages
- Splash-proof (IP54), high impact, compact housing

Model TKG100 & TK150 Additional Feature

• Sun light readable

Model TKG150 Additional Features

- · Echo to Echo option to reduce coating errors
- 100K internal datalogger with export to Excel
- B-scan (visual cross section of test piece)
- Vibrate on alarm

Model TKG250 Additional Features

- Color LCD display shows red, yellow and green visual alarm indication
- Live Waveform (A-scan for thickness verification)
- File compare feature as a real time corrosion monitor
- Dynamic change of waveform color on alarm
- · Grid review of saved readings
- Echo to Echo option to ignore coatings
- 100K internal datalogger with export to Excel
- B-scan (visual cross section of test piece)
- Vibrating alarm indication

Specifications on back page

Ordering

TKG100......Digital Ultrasonic Thickness Gauge TKG150.....Digital Ultrasonic Thickness Gauge/Datalogger TKG250....Color Waveform Ultrasonic Thickness Gauge/Datalogger *For replacement accessories and 10MHz transducer, please contact us.*



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TKG250 Color Screen displays





RF Waveform Screen



All models include 2oz bottle of couplant, 2 AA batteries, Transducer (5MHz, 0.375" diameter) with potted cable, and hard case. TKG150 and TKG250 also include protective holster, Echo to Echo, B-Scan, USB cable, and Extech XPorter software.

Common Functions	Description		
Thickness Range (in Steel)	5MHz probe: 0.040 to 20" (1.0 to 508mm); 10MHz probe: 0.020 to 20" (0.50 to 508mm)		
Languages	English, French, Spanish, Italian, Czech, German, Portuguese, Slovak, Finnish, and Hungarian		
Hold Mode	Holds display to retain last thickness reading with reverse video display		
Freeze Mode	Freezes display (ideal for high temperature readings)		
Fast Min/Max Mode	Displays min or max and actual thickness value at 20 measurements/sec		
Units	Inches/Millimeters/Microseconds		
Alarms	Min/Max depth, beeps and display flashes as well as keypad illumination; TKG150/TK250 also vibrate		
Illuminating Keypad	F1 = Red, F2 = Yellow, F3 = Green for easy, go/no-go testing		

Additional Functions	Model TKG100	Model TKG150	Model TKG250	
Gain - Variable adjustment	_	Low, Standard, High	In 1dB steps from 20-90dB or Automatic Gain Control (ACG) for waveform	
B-Scan - Displays a cross section of the test piece	_	Non-Encoded	Encoded or Non-Encoded - displays with optional encoder	
Echo to Echo	-	Measure the metal thickness only (Paint & coatings do not affect base material thickness value)		
Differential Mode	_	Displays the difference from the actual thickness measurement and a user entered reference value		
Velocity Mode	_	Displays acoustic sound speed		
Datalogger	_	Records 100K readings in linear, 2D, 3D grid or boiler alphanumeric files, 20 character file name, export to excel via Extech XPorter interface program, also compatible with Ultrapipe. TKG250 also has file compare and grid review features.		
Range	_	_	Adjustment of manual range control or auto zoom tracking to center echoes independent of selected range	
Rectification Modes	-	_	RF, Half Wave Positive, Half Wave Negative and Full Wave Rectification	
Live Waveform (A-Scan)	_	_	Full adjustments for gain in 1dB step or AGC, main bang blank, blank after first received echo, range including zoom auto tracking to center echoes independent of material and rectification	
Battery Life	Up to 50 hrs (20hrs w/backlighting)	Up to 50 hrs (20hrs w/backlighting)	8 to 14hrs (depends on operating conditions)	

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