

TKG Series Ultrasonic Thickness Gauges



CE

Compact, rugged housing ideal for field use & ultrasonic technology allows for non-destructive thickness measurements for primarily steel structures

- Measurement range: 5 MHz transducer: 0.040" to 20" (1 mm to 508 mm) of steel; Optional 10 MHz transducer: 0.030" to 2" (0.76 mm to 50.8 mm) of steel
- 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
- Splash-proof (IP54), high impact, compact housing

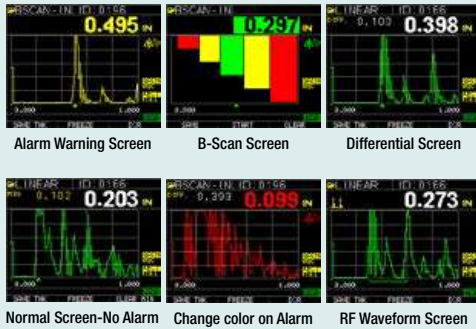
Model TKG150 Additional Features

- 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

TKG250 Color Screen displays



SPECIFICATIONS

Thickness (Steel)	5 MHz probe: 0.040 to 20" (1.0 to 508 mm); 10 MHz probe: 0.030 to 2" (0.76 to 50.8 mm)		
Material velocity calibration range	0.200 to 0.7362 in/μs (0.508 to 18.699 mm/μs)		
On Screen Languages	English, French, Spanish, Italian, Czech, German, Portuguese, Slovak, Finnish, 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	Audible beeping, illuminate flashing display & keypad, and vibration feedback (only on the TKG150/TKG250 models)		
Illuminating Keypad	F1 = Red, F2 = Yellow, F3 = Green for easy, go/no-go testing		

Additional Functions	TKG100	TKG150	TKG250
Gain - Variable adjustment	—	Low, Standard, High	In 1 dB steps from 20 to 90 dB or Automatic Gain Control (AGC) for waveform
B-Scan - Displays a cross section of the test piece	—	Displays a visual cross section of inspection area with no correlation to distance. B-Scan alarm colors consist of: Red = below minimum/above maximum; Yellow = Caution; and Green = Good.	
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 to measure thickness of unknown materials	
Datalogger	—	Stores 50k readings (expandable to 100k) and 5,000 waveforms; file names up to 20 characters long; and the included Extech XPorter software extracts CSV data files that can be opened for viewing in MS Excel, Notepad, or Wordpad. TKG250 also has file compare & 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 1 dB 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 (20 hrs w/backlighting)		8 to 14 hrs (depends on operating conditions)

ORDERING

TKG100	Digital Ultrasonic Thickness Gauge
TKG150	Digital Ultrasonic Thickness Gauge/Datalogger
TKG250	Color Waveform Ultrasonic Thickness Gauge/Datalogger
TKG-P5	Replacement 5 MHz Probe (Transducer)
TKG-P10	10 MHz Probe (Transducer)



All models include 2 oz bottle of couplant, 2 AA batteries, Transducer (5 MHz, 0.375" diameter) with potted cable, and hard case, plus a certificate of calibration traceable to NIST. TKG150 and TKG250 also include protective holster, USB cable, and Extech XPorter software.; 2-year warranty

