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## AUT500 Series 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 waveforms



# AUT500 Series Technical Specifications

Feature	AUT500	AUT500D	AUT500DL	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

## UM-5 Probe/Transducer Specifications

Model	PT08	TC510	PT12	ZT12	PT06	PT04	GT12
Type	AUT500 Standard	AUT500D/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°C	-10 to 70°C	-10 to 70°C	-10 to 70°C	-10 to 70°C	-10 to 70°C	-20 to 300°C