Acision UTG8100
Ultrasonic Thickness Gauge

Acision UTG8100 Ultrasonic Thickness Gauge will be the best choice for accomplishing measurement. It fits many kinds of metal, such as steel, cast steel, aluminum, plastic, glass fiber and any other good conductors of ultrasonic.

Advanced Auto Probe Zeroing Calibration and Echo-Echo mode are applied on Acision UTG8100. More accurate measuring result in higher production rate.

OPERATION

- Inco Style Menu
- Showing different data modes
- Stroll Bars Indicates Function
- Free to change : Huge front and normal
- Statistic Function
  - Online statistic :Max Min, Standard Deviation
  - Document Statistic : Max Min Average, mean square error
- Probe Connection/Coupling Indicator

OPERATION

- Accuracy : 0.1 / 0.01mm or 0.01 /0.001 inch resolution
- Extra-long standby time: 200 hours.

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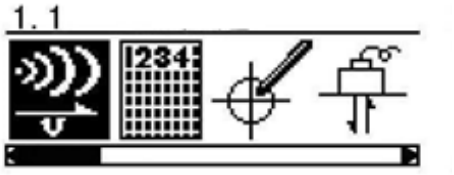
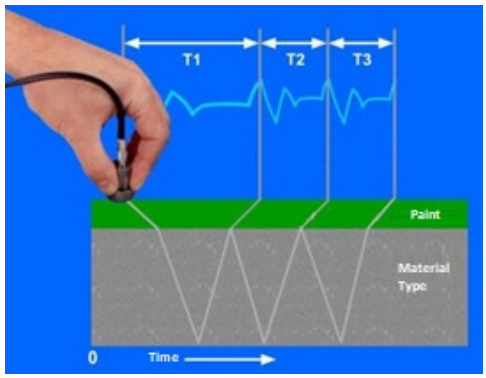
Complete with:
Host x1, Probe x1, Carrying Case x1, Battery x1, Instruction manual x1 Coupling Gel x1





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Performance Index	Coupling condition	Display
Working principle Ultrasound (ultrasonic pulse echo / echo echo)	Cue signal coupling intensity; measured value displayed solid/hollow change, visual indication of whether the normal measurement	LCD dot matrix display High contrast 128X64 Number, Symbol, High Brightness EL Backlight
Detection range Normal mode : 0.75-400mm	**Appearance size** 165 × 82 × 30 mm	Refresh rate measurement Single point measurement of 5 times per second, 25 times / sec scan mode
Resolution 0.1mm (>100mm) / 0.01mm (<100mm)	**Weight** 250g (including battery)	**Measured Value / Alarm**
Indicator ±（0.5%H+0.01）mm	**Work environment** **Temperature：** -20℃~70℃ **Humidity：** 5%～90% The environment without strong vibration, non-strong magnetic field, non- corrosive medium and serious dust.	**Measured value display** 3 custom measurement display area, can choose online statistics or sound
Velocity 1000~9999m/s，Preset 5 commonly used material velocity	**Measuring Range** Normal : 0.75~400mm Coating : 2-25mm	**Statistics Data** Online Statistics: maximum, minimum, standard deviation Document statistics: maximum / small value, mean, variance
Calibration Through the realization of real-time calibration probe zero unique automatic zero calibration technique	**Excitation pulse** 150V Negative spike	**Alarm** Acoustic optic alarm threshold
V range correction Auto	Receiving system	
Probe connection indicating Yes	**Gain** High / low / automatic	
	Frequency bandwidth 0.5-15MHz	

Input and output	Power Source	Standard Package
Probe connection LEMO 00 (C5) x2	**Battery** 1.5V AAA x 4	Host 1, Instructions 1, Probe 1, Packing box 1, Battery 1
Language Chinese/ English		

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... Probe of Our Thickness Gauge

Model	Automatic zero	Measurement precision	USB	Penetrate the coating	Statistical function	Storage Capacity
UTG8100	V	0.1/0.01mm	X	X	Online statistics	100 Groups

... Probe of Our Thickness Gauge

Application	Mode	Rate	Probe Diameter	Measuring range	Minimum diameter
Standard application	DA301S	5 MHz	10mm	0.75mm～400.0mm（Steel)	Φ20mm×3.0mm
Standard application	DA301S/90	5 MHz	10mm	0.75mm～400.0mm（Steel)	Φ20mm×3.0mm
Thick Wall	DA303S	2 MHz	22mm	3.0mm～300.0mm（Steel)	20mm
Thin Wall	DA312S	7 MHz	6mm	0.75mm～80.0mm（Steel)	Φ15mm×2.0mm
High temperature	HT400S	5 MHz	14mm	3～200mm （Steel)	30mm
High attenuation	DA408S	2 MHz	22mm	40mm↓(Grey cast iron HT200)	20mm

...Commonly used material velocity

Material type		Sound Velocity	
		inch/us	m/s
Aluminum	Aluminum	0.25	6340-6400
Steel, common	Steel, common	0.233	5920
Steel, stainless	Steel, stainless	0.226	5740
Brass	Brass	0.173	4399
Copper	Copper	0.186	4720
Iron	Iron	0.233	5930
Cast Iron	Cast Iron	0.173-0.229	4400－5820
Lead	Lead	0.094	2400
Silver	Silver	0.142	3607
Gold	Gold	0.128	3251
Titanium	Titanium	0.236	5990
Tin	Tin	0.117	2960
Nickel	Nickel	0. 222	5639
Porcelain	Porcelain	0. 230	5842
Rubber, vulcanized	Rubber, vulcanized	0. 091	2311
Water	Water	0. 058	1473