

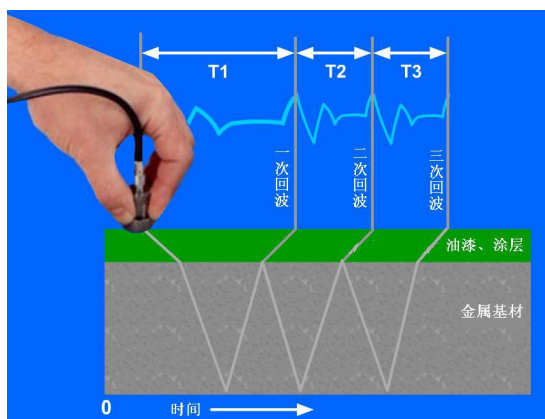
TG Series : High Performance, Low Price

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

TG520 could measure the thickness of metal covered with coating, the thickness of metal base will be showed.

Advanced Auto Probe Zeroing Calibration and Echo-Echo mode are applied on QUAM TG series. Taking more accurate measuring result and higher production rate to you.

QUAM TG Series is creative, it will supply a superior experience for users.



The indicator of eliminating coating

No 0	MAX	10.00
File 0		
EE	10.00	mm
↑ 300.0	MIN	1.00
↓ 0.00		

Measuring Interface

EE	10.00	mm
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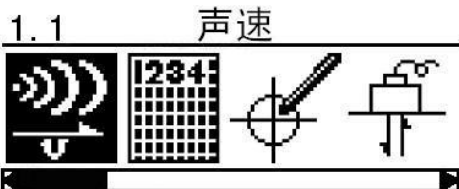
Brief Interface

OPERATION

- Inco Style Menu
- Showing different data modes
- Stroll Bars Indicates Function
- Free to change : Huge front and normal

FUNCTION

- USB for Storage, Plug and Play
Covenient to read thickness values
- Massive Data Memory-100,000 data sets
1000 files could be saved , every file could memory
1000 data sets
- Statistic Function
Online statistic :Max Min, Standard Devraation
Document Statistic : Max Min Average, mean square error



Menu

■ Probe Connection/Coupling Indicator

OPERATION

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

Performance index
Working principle Ultrasound (ultrasonic pulse echo / echo echo)
Detection range Normal mode : 0.75~400mm Penetrate the coating : 2~25mm (Depending on the probe, the measured material and surface condition)
Resolution 0.1mm(> 100mm)/0.01mm(<100mm)
Indicator $\pm (0.5\%H+0.01) \text{ mm}$
Velocity 1000~9999m/s, Preset 5 commonly used material velocity
Calibration Through the realization of real-time calibration probe zero unique automatic zerocalibration technique
V range correction Auto
Probeconnection indicating Yes
Coupling condition Cue signal coupling intensity; measured value displayed solid / hollow change, visual indication of whether the normal measurement
Appearance size 165×82×30 mm

Weight 250g (Including battery)
Work environment Temperature: -20℃~70℃ Humidity: 5%~90% The environment without strong vibration, no strong magnetic field, non corrosivemedium and serious dust.
Measuring Range: Normal : 0.75~400mm Coating : 2-25mm
Excitation pulse 150V Negative spike
Receiving system
Gain High / low / automatic
Frequency bandwidth 0.5~15MHz
Display
LCD dot matrix display High contrast 128X64 Beatiful characters Number, Symbol,High Brightness EL Backlight
Refresh rate measurement Single point measurement of 5 times per second, 25 times / sec scan mode
Measured value / alarm
Measured value display 3 custom measurement display area, can choose online statistics or sound

Statistical data Online Statistics: maximum, minimum, standard deviation Document statistics: maximum / small value, mean, variance
Alarm Acousto optic alarm threshold
Storage
Data set 1000 Sets
The thickness values 1000sets/Group Linearity
USB Storage Connection USB is allowed, convenient to read thickness values
Input and output
probeconnection LEMO 00 (C5) x2
Communication RS232/USB
Language Chinese/ English
Unit mm/inch
Power Source
Battery 1.5V AAA x 4
Working time Can work continuously for 200 hours (standard test conditions)
Standard Package
Host 1 Instructions 1
Probe 1 Packingbox 1
Battery 1 couplant 1

... 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	0.250	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

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