



QUAM TG280 Ultrasonic Thickness Gauge

A. Introduction

Ultrasonic Thickness Gauge measuring with ultrasonic wave, is applicable for measuring the thickness of any material in which ultrasonic wave can be transmitted and reflected back from the other face.

The gauge can provide quick and accurate measurement to various work pieces such as sheets of board and processing parts. Another important application of the gauge is to monitor various pipes and pressure vessels in production equipment, and monitor the thinning degree during using. It can be widely used in petroleum, chemical, metallurgy, shipping, aerospace, aviation and other fields.

B. Main Functions

- Capable of performing measurements on a wide range of material;
- Can collocate variety different frequencies, wafer sizes of probes;
- Sound Velocity Calibration function as a known thickness;
- Coupling status indicator showing the coupling status;
- EL backlight, and convenience to use under dark environment;
- Have the battery indicator function, can real-time display the remaining power
- Auto sleep and auto power off function to conserve battery life;

D. Instrument Configuration

	No	Name	QTY
Standard Configuration	1	Main Body	1
	2	Standard Probe	1
	3	Couplant	1
	4	ABS Case	1
	5	Manual	1
Optional Accessories	6	1.5V AA size battery	2
	7	Large diameter probe (2.5MHz)	
	8	Micro-diameter probe (7MHz)	
	9	High temperature probe (5MHz)	
	10	Large range probe (2MHz)	
	11	High temperature couplant	

C. Technical Specification

- Display: 128*64 LCD with LED backlight;
- Measuring Range: (0.75~600)mm (Steel)
- Velocity Range: (1000~9999) m/s;
- Resolution: 0.01mm
- Measuring accuracy: $\pm (0.5\%H + 0.04\text{mm})$; H is thickness value;
- Measurement cycle: Single point measurement 6 times/per;
- Storage: 40 values of saved data
- Power Source: 2pcs 1.5V AA size
- USB Port
- Working Time: more than 50 hours (LED back light off). Outline Dimensions: 145mm*74mm*32 mm
- Weight: 245g



E. The choice to probes

Name	Model	Fre (MHZ)	Diameter	Testing Range	Min. area	Application
Large diameter	N02	2.5	14mm	3.0 ~ 300.0mm (steel) 40mm (Gray Iron HT200)	20mm	casting work piece
High Temperature	HT5	5	14mm	3 ~ 200.0mm (steel)	30mm	high temperature
Standard probe	N05/90°	5	10mm	1.0 ~ 230.0mm (steel)	Φ20×3.0mm	General bent probe
Micro-diameter	N07	7	6mm	0.75 ~ 80.0mm (steel)	Φ15×2.0mm	thin work piece
Large range probe	N02	2	14mm	3.0 ~ 600.0mm (steel) 100mm (Gray Iron HT200)	20mm	casting work piece