

Measuring principle

Ultrasonic thickness gauge determines the sample thickness by measuring the amount of time it takes for a sound pulse, generated by an ultrasonic transducer, to travel through a test piece and reflect from the inside surface or a far wall.

Applications

Based on ultrasonic measuring principle, thickness of metal and other materials can be measured. So, it can monitor the degree of thinning, caused by corrosion, of all kinds of tubes and pressure vessels during working process, and accurately measure the thickness of all kinds of plates and processing parts. This gauge is applied widely in fields, such as petroleum, chemical, metallurgical, shipbuilding, aerospace industry, etc.

Features

- User friendly menu operation.
- Adjustable backlight LCD.
- Memory storage with each set of measured value, sound velocity, max, min and avg value.
- Option for silent operation and auto power off for conserving battery.



Technical Specifications

Model	Metrix+ UTM 5A+
Display	240 x 320 LCD with adjustable backlight and user-friendly menu operation.
Measuring range	1 ~ 300mm (in steel)
Accuracy	H < 10mm, ±0.1mm H ≥ 10mm, ±(0.1 + 1.0%H)mm H = real thickness of sample
Resolution	0.1mm/0.01mm/0.01inch
Sound velocity range	1000 ~ 9999 m/s
Units	mm, inch
Min size of tube	Φ20 * 3mm (steel)
Memory	300 sets of records
Additional functions	Menu operation, single and continuous measurement modes, alarm measurement, sound velocity measurement and probe calibration
Power supply	3 x 1.5V AAA battery ; about 4 hrs of continuous working period
Size and weight	128 x 63.5 x 27 mm ; 0.15kg
Standard accessories	Main unit, standard probe, coupling agent, manual, batteries, gift box