

Hemsun Analytics

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COMPLETE RANGE OF INDUSTRIAL THICKNESS GAUGES

Ultrasonic Thickness Gauge HTG 101



Product Description

Ultrasonic Thickness meter HTG 101 is an intelligent ultrasonic thickness gauge works based on the latest high-performance and Low-powered micro-processing technology, which applies to measuring the thickness and acoustic velocity of metals and a variety of other materials.

It is the primary inspection tool used to measure the remaining walls of components such as pipelines, pressure vessels and numerous other applications, in order to monitor the degree of wear and erode for the manufacturing equipments. Moreover, it can accurately measure kinds of plank stuff and fabrication parts.

Common applications include industries of petroleum, chemical, metallurgy, shipbuilding, aviation, etc.

Features

- Common applications include metals (such as steel, cast iron, aluminum, copper, etc), plastic, ceramic, glass, fiber-glass and other ultrasonic good conductors.
- Can be used with various double crystal probes in different sizes and frequencies.
- Function of zero point calibration and two points calibration can correct the error of the system automatically.
- With the given data of thickness, the sound velocity can be measured, so that the measurement accuracy can be improved.
- Coupled with prompt, low voltage-tips on the screen.
- EL backlight display function: for measurement in poor lighting environment.
- Dump energy indicator function: to display the real time dump energy of the batteries.
- Shutdown mode: manual and automatic shutdown features are helpful for battery saving.
- Features of portable figure, high reliability, anti-vibration and anti-interference make it can be used in terrible operation environment.
- Function of RS232 communication: data transmission with PC is possible. (optional function)

Technical Specifications

Display	High-contrast LCD with high brightness EL backlight
Measuring Range	0.65~300mm (in steel), can choose mm or inch
Sound Velocity Range	1000~9999m/s
Resolution	0.1mm/0.01mm (optional)
Accuracy	±(0.5%H+0.04)mm H (H for the actual thickness)
Measurement Frequency	4 times per second for single point mode; 10 times per second for scan mode
Memory	2000 measured values can be stored
Work Voltage	3V (2* AA alkaline battery)
Continuous working period	100 hours (with the EL backlight off)
Operating Environment	Temperature: -20°C~50°C Humidity: ≤90RH%
Dimensions	152mm*74mm*32mm
Weight	215g

Optional Configuration

Item	Description
Probe PS-08	5MHZ normal operating temperature<60°C 10mm 0.75~300mm
Probe PS-06	7MHZ normal operating temperature<60°C 6mm 0.7~100mm
Probe ZS-12	2MHZ normal operating temperature for cast iron<60°C 5.0~40mm
Probe ZW	5MHZ medium operating temperature<350°C 12mm 2.0~200mm
Couplant	50g normal operating temperature

Important Note

If you select common Probe PS-08 then the measuring range of HTG 100 is 0.75~300mm. And if you select other probe according to your application, then the measuring range depends upon specification of probe selected.

Ultrasonic Thickness Gauge Probes



Specifications of Common probe PS-o8

Model	Feature	Detecting Range (steel)	Diameter	Frequency	Contact Temp.
PS-o8	Common use	0.75—300mm	10mm	5MHz	-10 ~ 60°C



Specifications of Microbore Probe PS-o6

Model	Feature	Detecting Range (steel)	Diameter	Frequency	Contact Temp.
PS-o6	Mic-caliber	0.7—100mm	6mm	7MHz	-10 ~ 60°C



Specifications of Cast Iron Probe ZS-12

Model	Feature	Detecting Range (steel)	Diameter	Freq	Contact Temp
ZS-12	High penetrability	5.0-40mm(castiron)	22mm	2MHz	-10 ~ 60°C



Specifications High Temperature Resistant Probe ZW

Model	Feature	Detecting Range (steel)	Diameter	Frequency	Contact Temp.
ZW	high thermal resistance	2.0—200mm	12mm	5MHz	-10 ~ 350°C

Accessories



- Ultrasonic Thickness Gauge 1pcs
- Operating Manual 1pcs
- Special Couplant 1pcs
- Sensor (Selected by client) 1pc
- DataPro Software (Optional)
- Communication Cable (Optional)
- ABS instrument case

For Any More Query Regarding Product, please contact us or write us on info@hemsun.co.in

The Above Specifications are standard for reference only. Product specifications and measuring ranges can be customize and supplied as per user confirmation. Note: Specification and Features mentioned in datasheet will be change with application, Cause of Engineering Research, Design And Product Improvement; specifications are subjected to change without notice. Refer latest datasheet on website : www.hemsun.co.in