

HST-L213 Ultrasonic Thickness Gauge



Picture is for reference only

The HST-L213 ultrasonic thickness gauge is user-friendly and operates on the principle of ultrasonic pulse reflection to measure material thickness. It is compatible with four probe types—standard, micro-diameter, coarse crystal, and high-temperature probes—and is ideal for measuring the thickness of metals (like steel, aluminum, copper), plastics, ceramics, glass, fiberglass, and other ultrasonic-conductive materials. With a dedicated timing chip, it offers a resolution of up to 0.01 mm.

Application

In many industries, It is essential to measure the wall thickness to confirm the condition of the material for the normal running of the items or structure safety. HST-L213 ultrasonic thickness gauge can be widely used in testing the thickness of various accessories or metallic structure to check them whether to be repaired or changed such as ships, tanks, pipes or steel structure. The gauge is applicable for petroleum, chemical, metallurgical, shipbuilding, aviation and aerospace various fields.

Parameters

1. Probe specifications and parameters

Probe	Standard Probe	Micro-diameter Probe	Coarse Crystal Probe	High Temperature Probe
Probe Model	5MHZφ10	7MHZ PT-06	2MHZ ZT-12	5MHZ GT-12
Minimum Measuring Aarea	φ10mm	φ6mm	φ12mm	φ12mm
Probe Size	φ18*26mm	φ15*25mm	φ18*28mm	φ43*48mm
Measuring Range(45#steel)	0.8-350mm	0.75-80mm	3-200mm	3-200mm
Accuracy(H is the standard value)	H<10mm:±0.05mmH≥10mm:±0.5%H	H<10mm:±0.05mmH≥10mm:±0.5%H	H<10mm:±0.1mmH≥10mm:±0.5%H	H<10mm:±0.05mmH≥10mm:±0.5%H
Pipe Measurement Lower limit(45# steel)	φ20*3mm	φ20*2mm	φ30*4mm	φ30*4mm
Exposure Temperature	-10~60℃	-10~60℃	-10~60℃	-10~500℃
Application	Measure conventional workpieces	Measure surfaces and small workpieces	Cast iron and some materials with large crystal particles	Measure high temperature workpieces

2. Host parameters

Parameters	Values
Measuring Range	0.8-350mm(45#steel)
Resolution	0.8-100mm: 0.01mm 100-350mm: 0.1mm
Accuracy	0.8-10mm: ±0.05mm 10-350mm: ±0.5%

Parameters	Values
Sound Velocity Range	1000~19999m/s
Probe Specification	5MHz ϕ 10 dual-crystal probe
Display	240 * 160 dot matrix LCD
Unit	mm/inch
Power Supply	2 * AA alkaline dry batteries
Host Size	142 * 72 * 28 mm
Weight	about 230g
Working Temperature Range	-10~50℃, 0~85%RH (No condensation)
Storage Temperature Range	-10~60℃, 0~85%RH (No condensation)