HST-L215 Ultrasonic Thickness Gauge

Picture is for reference only

HST-L215 ultrasonic thickness gauge adopts the pulse echo measurement principle to perform nondestructive testing on steel, aluminum, copper, plastics, ceramics, glass, and other sound-conductive materials. With a display resolution up to 0.01 mm, the HST-L215 meets the accuracy requirements verified by the national metrology institute. Four probes are available—standard, micro-diameter, coarse-crystal, and high-temperature—which can be freely selected based on application needs.

Application

Suitable for measuring the thickness of metal plates, steel parts, pipes, ceramics, plastics, glass and any other material that conducts ultrasonic waves.

Note: For accurate results, the rear surface of the test piece must be parallel or coaxial with the test surface. For curved samples, ensure the split surface of the probe is perpendicular to the curvature axis.

Parameters

1. Probe 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
Application	Measure conventional workpieces	Measure curved surfaces and small workpieces	Cast iron and some materials with large crystal particles	Measure high temperature workpieces
Minimum measuring area	φ10mm	φ6mm	φ12mm	φ12mm
Probe size	φ18*26mm	φ15*25mm	φ18*28mm	φ43*48mm
Measuring Range (45#steel)	1-320mm	0.75-80mm	3-200mm	3-200mm
Accuracy (H is the standard value)	H<10mm: ±0.05 H>=10mm: ±0.5%H	H<10mm: ±0.05 H>=10mm: ±0.5%H	H<10mm: ±0.1 H>=10mm: ±1%H	H<10mm: ±0.05 H>=10mm: ±0.5%H
Exposure temperature	-10~60℃	-10~60℃	-10~60℃	-10~500℃
Pipe measurement lower limit (45# steel)	φ20*3mm	φ20*2mm	φ30*4mm	φ30*4mm

2. Main Unit Parameters

Parameters	Values
Resolution	1-100mm：0.01mm 100-320mm：0.1mm
Sound Velocity Range	1000~19999 m/s
Display	240 * 160 dot matrix LCD
Units	mm/inch

Parameters	Values
Power	2pcs of 1.5V AA alkaline battery
Host Size	142*72*28 mm
Weight	About 230g
Operation Temperature Range	-10~60℃，0~85%RH（No condensation）
Storage Temperature Range	-10~60℃，0~85%RH（No condensation）