

THICKNESS PROBES

A thickness probes consists of two ceramic elements housed in the same case, separated by an acoustic barrier. One element transmits longitudinal waves, and the other element acts as a receiver. Probes are readily available to satisfy a wide range of remaining wall thickness applications including: high- temperature, through-coating, erosion/corrosion, thin materials, external pitting, boiler, small diameter piping and tubing, and general-purpose applications. For information about transducers for all WT-600 and WT-700 series thickness gages, please consult Worltech, Inc.



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Worltech, Inc.

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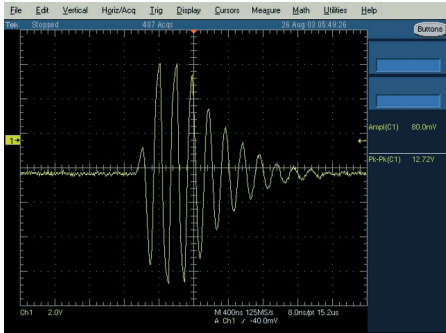


Advantages

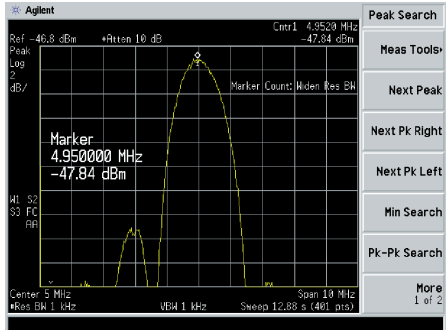
- Thickness probes are designed for **excellent near surface resolution while maintaining high sensitivity** and are used for flaw detection, thickness gauging, cure monitoring, fluid flow Doppler probes, and level switches
- Couples well on rough or curved surfaces
- Reduces direct back-scattering noise in coarse grained or scattering materials
- High Temperature Thickness probes do not require delay lines while in contact with hot surfaces and are resistant to thermal cycling.

Applications

- Through-coating
- Thin material, External pitting
- Wear-resistance, boiler tubing
- Small diameter piping and tubing
- High- temperature wall thickness measurement
- Corrosion/erosion monitoring
- Weld overlay and cladding bond/disbond inspection
- Detection of porosity, inclusions, cracks, and laminations in castings and forgings
- Crack detection in bolts or other cylindrical objects



Signal Waveform by 5MHz Thickness probe
(Model WT-DS0510)



Frequency Waveform by 5MHz Thickness probe
(Model WT-DS0510)

Model	Frequency	Connector type	Contact Diameter	Range in Steel	Temperature Range	Designation
WT-DS0110 WT-DT0110	1MHz	Right Angle Straight	0.394 in (10.0 mm)	0.078 to 16 in (2 to 400 mm)	14 to 122 °F (-10 to 50 °C)	Casting and forging
WT-DS0116 WT-DT0116	1MHz	Right Angle Straight	0.630 in (16.0 mm)	0.078 to 24 in (2 to 600 mm)	14 to 122 °F (-10 to 50 °C)	Casting and forging
WT-DS2510 WT-DT2510	2.25MHz	Right Angle Straight	0.394 in (10.0 mm)	0.059 to 12 in (1.5 to 300 mm)	14 to 122 °F (-10 to 50 °C)	Casting and forging
WT-DS2516 WT-DT2516	2.25MHz	Right Angle Straight	0.630 in (16.0 mm)	0.059 to 20 in (1.5 to 500 mm)	14 to 122 °F (-10 to 50 °C)	Casting and forging
WT-DS0505 WT-DT0505	5MHz	Right Angle Straight	0.197 in (5.0 mm)	0.039 to 5 in (1.0 to 120 mm)	14 to 122 °F (-10 to 50 °C)	Small diameter piping
WT-DS0510 WT-DT0510	5MHz	Right Angle Straight	0.394 in (10.0 mm)	0.039 to 8 in (1.0 to 200 mm)	14 to 122 °F (-10 to 50 °C)	Corrosion and erosion
WT-DS0516	5MHz	Right Angle	0.630 in (16.0 mm)	0.039 to 10 in (1.0 to 250 mm)	14 to 122 °F (-10 to 50 °C)	Corrosion and erosion
WT-DS1005 WT-DT1005	10MHz	Right Angle Straight	0.197 in (5.0 mm)	0.025 to 1 in (0.63 to 30 mm)	14 to 122 °F (-10 to 50 °C)	Thin materials
WT-DS1010 WT-DT1010	10MHz	Right Angle Straight	0.394 in (10.0 mm)	0.025 to 2 in (0.63 to 50 mm)	14 to 122 °F (-10 to 50 °C)	Thin materials
WT-HDS0510 WT-HDT0510	5MHz	Right Angle Straight	0.394 in (10.0 mm)	0.039 to 4 in (1.0 to 100 mm)	32 to 662 °F (0 to 350 °C)	High- temperature wall and boiler
WT-HDS0510S WT-HDT0510S	5MHz	Right Angle Straight	0.394 in (10.0 mm)	0.039 to 4 in (1.0 to 100 mm)	32 to 482 °F (0 to 250 °C)	High- temperature wall and boiler
WT-SSD1575	15MHz	Right Angle	0.295 in (7.5 mm)	0.025 to 2 in (0.63 to 50 mm)	14 to 122 °F (-10 to 50 °C)	Thin materials
WT-SSD2075	20MHz	Right Angle	0.295 in (7.5 mm)	0.025 to 2 in (0.63 to 50 mm)	14 to 122 °F (-10 to 50 °C)	Thin materials
WT-SSD2575	25MHz	Right Angle	0.295 in (7.5 mm)	0.025 to 2 in (0.63 to 50 mm)	14 to 122 °F (-10 to 50 °C)	Thin materials and coating