

Cygnus Instruments

Cygnus Twin Crystal Probes - MK5 Surface Gauges



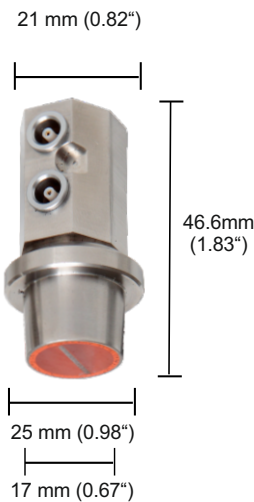
To compliment our ultrasonic thickness gauges we offer a range of ultrasonic probes. The performance of any ultrasonic thickness gauge relies heavily on the probe and its suitability to the material being measured. Therefore, selecting the right probe is vital.

Twin crystal probes are used with our gauges in Echo-Echo or Single Echo modes. These types of probes are particularly suited to measuring on heavily corroded metals.

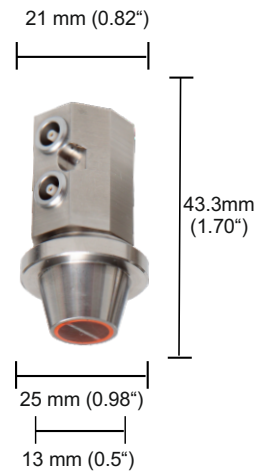
All Cygnus' probes are made form stainless steel 304 and have a hard wear face which will wear down as the probe is used.

In Echo-Echo mode, up to 1 mm (0.040 inch) of surface coating can be read through and ignored. Single-Echo mode should only be used when there are no surface coatings.

T2C-CSL



T5B-CSL



T5A-CSW



T5B-CSW



T7A-CSW



PROBE SPECIFICATIONS

Probe Type	Frequency Crystal Ø	Tip Size	Range in Steel (Single-Echo)	Range in Steel (Echo-Echo)	Typical Applications	Crystal	Connectors	Weight	Temperature Range
T2C-CSL	2 MHz 12 mm (0.5 inch)	17 mm (0.67 inch)	2.5 - 350 mm (0.1 - 13.8 inch)	5 - 50 mm (0.20 - 2 inch)	<ul style="list-style-type: none"> Attenuative materials 	Composite	Twin Lemo 00	56 g (1.98 oz)	-10°C to 70°C (14°F to 158°F)
T5B-CSL	5 MHz 9.5 mm (0.37 inch)	12.7 mm (0.5 inch)	1.5 - 200 mm (0.059 - 7.90 inch)	4 - 50 mm (0.16 - 2 inch)	<ul style="list-style-type: none"> General purpose Surfaces with heavily corroded and pitted front/back walls 	Composite	Twin Lemo 00	61 g (2.15 oz)	-10°C to 70°C (14°F to 158°F)
T5A-CSW	5 MHz 6.4 mm (0.25 inch)	9.5 mm (0.37 inch)	1 - 150 mm (0.039 - 5.91 inch)	3 - 50 mm (0.12 - 2 inch)	<ul style="list-style-type: none"> General purpose 	Composite	Wired to Lemo 00	81.7 g 2.89 oz Inc. cable	-10°C to 70°C (14°F to 158°F)
T5B-CSW	5 MHz 9.5 mm (0.37 inch)	12.7 mm (0.5 inch)	1.5 - 200 mm (0.059 - 7.9 inch)	4 - 50 mm (0.16 - 2 inch)	<ul style="list-style-type: none"> General purpose 	Composite	Wired to Lemo 00	90g (3.2 oz) Inc. cable	0°C to 60°C (32°F to 140°F)
T7A-CSW	7.5 MHz 4.5 mm (0.18 inch)	7.8 mm (0.3 inch)	0.8 - 50 mm (0.031 - 2 inch)	3 - 25 mm (0.12 - 1 inch)	<ul style="list-style-type: none"> Small diameter pipes Thin, corroded plate 	Composite	Wired to Lemo 00	68 g (2.39 oz) Inc. cable	-10°C to 70°C (14°F to 158°F)