

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 from 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.

PROBE SPECIFICATIONS

Probe Type	Frequency Crystal Ø	Tip Size	Range in Steel (Single-Echo)	Range in Steel (Echo-Echo)	Typical Applications	Element	Connectors	Weight	Temperature Range
T2C	2 MHz 12 mm (0.5 inch)	17 mm (0.67 inch)	2.5 - 250 mm (0.099 - 9.84 inch)	5 - 50 mm (0.20 - 2 inch)	• Attenuative materials	Composite	Twin Lemo 00	56 g (1.98 oz)	-10°C to 70°C (14°F to 140°F)
T5B	5 MHz 8 mm (0.32 inch)	13 mm (0.5 inch)	1.5 - 200 mm (0.059 - 7.90 inch)	4 - 50 mm (0.12 - 2 inch)	• High power composite probe • Surfaces with heavily corroded and pitted front/back walls	Composite	Twin Lemo 00	61 g (2.14 oz)	-10°C to 70°C (14°F to 140°F)
T5A	5 MHz 6.3 mm (0.25 inch)	10 mm (0.39 inch)	1 - 150 mm (0.059 - 7.90 inch)	3 - 50 mm (0.12 - 2 inch)	• General purpose • Economical probe	Monolithic	Integral cable to Lemo 00	81.7 g (2.89 oz)	-10°C to 70°C (14°F to 140°F)
T7A	7.5 MHz 5 mm (0.2 inch)	7.6 mm (0.3 inch)	0.8 - 50 mm (0.031 - 2 inch)	3 - 25 mm (0.12 - 1 inch)	• Small diameter pipes • Thin, corroded plate	Monolithic	Integral cable to Lemo 00	68 g (2.39 oz)	-10°C to 70°C (14°F to 140°F)

