Cygnus Instruments
Twin Crystal Probes - Mk5 Surface Gauges

Data Sheet

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. This type of probe is 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 1mm of surface coating can be read through & ignored. Single Echo Mode should only be used when there are no surface coatings.

Specifications

Probe Type	Frequency Crystal Ø	Tip Size	Range in Steel Single-Echo	Range in Steel Echo-Echo	Typical Applications	Element	Conn-ectors	Weight	Temperature Range
T5B	5MHz 8mm (0.32")	13mm (0.5")	1 to 200mm (0.059" to 7.90")	3 to 50mm (0.12" to 2.00")	- High power composite Probe - Surfaces with heavily corroded and pitted front/back walls	Composite	Twin Lemo 00	61g (2.14oz)	-10 to 70°C (+14 to 140°F)
T5A	5 MHz 6.3mm (0.25")	10mm (0.39")	1 to 150mm (0.059" to 7.90")	3 to 50mm (0.12 to 2.00")	- General purpose - Economical probe	Monolithic	Integral cable to Lemo 00	81.7g (2.89oz)	10 to 70°C (+14 to 140°F)
T2C	2 MHz 12mm (0.5")	17mm (0.67")	2.5 to 250mm (0.099" to 9.84")	5 to 50mm (0.20" to 2.00")	- Attenuative materials	Composite	Twin Lemo 00	56g (1.98oz)	10 to 70°C (+14 to 140°F)
T7A	7.5 MHz 5mm (0.2")	7.6mm (0.3")	0.8 to 50mm (0.031" to 2.00")	3 to 25mm (0.12 to 1.00")	- Small diameter pipes - Thin, corroded plate	Monolithic	Integral cable to Lemo 00	68g (2.39oz)	10 to 70°C (+14 to 140°F)

T2C

T5B

T5A

T7A