

Twin Crystal Probes for Cygnus Mk5 Surface Ultrasonic Thickness Gauges

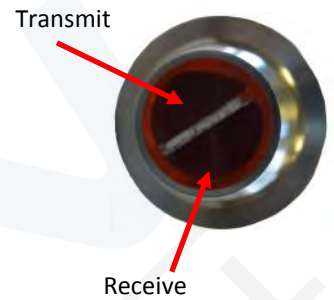
To complement our range of ultrasonic thickness gauges we offer a range of ultrasonic probes. The performance of any ultrasonic thickness gauge relies heavily on the quality of the probe and its suitability to the material being measured. Therefore selecting the right probe is vital.

Twin Crystal Probes are used with the gauge in Echo Echo or Single Echo modes.

The probe face is divided into two semi-circles, one half transmits the ultrasound and the other half receives it.

They have a hard wear face which will eventually wear down. The gauge will automatically "Zero" the probe to compensate for wear (until there is excessive wear when the probe should be replaced). The gauge will indicate when the probe needs changing with a warning message.

In Echo-Echo Mode, up to 1mm of coating can be read through & ignored. Single Echo Mode can only be used when there are no coatings.



Close up of probe face

Probe ID Number	Frequency	Face Size	Range in Steel in Single Echo Mode	Range in Steel in Echo Echo Mode	Typical Applications
T5B	5MHz	8mm (0.32")	2 to 150mm (0.08" to 7.90")	4 to 50mm (0.16" to 1.97")	Standard twin crystal probe frequency Surfaces with heavily corroded and pitted front/back walls
T2C	2MHz	12mm (0.5")	3 to 200mm (0.12" to 7.90")	5 to 50mm (0.20" to 1.97")	Attenuative materials, e.g. cast Range of plastics (the measuring range will depend on the type)
T7A	7.5MHz	5mm (0.2")	1 to 50mm (0.04" to 2.40")	3 to 25mm (0.12" to 0.98")	Small diameter pipes Thin, corroded plate

T5B 5MHz 8mm



T2C 2MHz 13mm



T7A 7.5MHz 5mm Probe



Specifications

Body Stainless Steel 304

Connectors T5B & T2C Twin Lemo 00

Weight: T5B : 61g (2.14 oz)

T2C: 56g (1.98 oz)

T7A: 68g (2.39 oz) (with cable & connector)