EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

INLEC

DATASHEET

Cygnus Instruments
Mk5 Ultrasonic Thickness Gauge - Cygnus 4 GENERAL PURPOSE

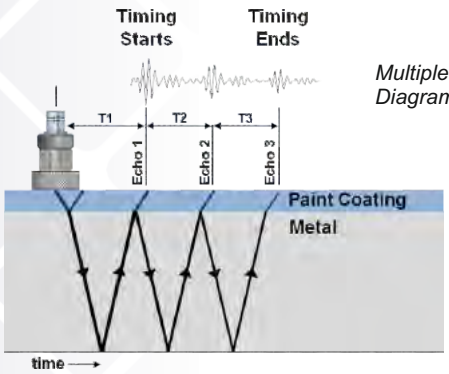
The **Cygnus 4 GENERAL PURPOSE** uses Multiple-Echo to reliably measure metal thickness through coatings (up to 20mm (0.8") thick). The gauge is light, very tough and extremely simple to operate with a large and bright front mounted colour LCD display.

KEY FEATURES

- Multiple-Echo, using Single Crystal Probes, for reliable and accurate measurements as specified by Classification Societies
- One point calibration
- Intuitive easy to use menu
- Large and bright front colour LCD display
- Shock and impact to US MIL STD 810G
- Environmental sealing (water and dust proof) to IP67 – US MIL STD 810G

MULTIPLE ECHO MEASURING MODE

Multiple-Echo (Single Crystal Probes) uses three error checked back wall echoes to provide the most reliable and accurate remaining thickness measurements, with no need to remove coating (up to 20mm thick (0.8")).



Multiple-Echo Diagram

VARIETY OF PROBES

Cygnus Stainless Steel INOX Probes (Single Crystal) Used in Multiple-Echo mode, these probes include replaceable membranes for long life, require no zeroing and have a high linear accuracy.

DURABLE CABLES

Using standard industry connectors our probe leads offers superior flexibility and resistance to oils and ultraviolet light. The cable will not stiffen after exposure to ultraviolet light.

STANDARD KIT CONTENTS

Cygnus 4 ultrasonic thickness gauge; padded carry case; operating manual; adjustable neck strap and loops; wrist strap; accessory pouch; spare membranes; surface and membrane couplant; test block; 3 x AA batteries; mini USB - USB cable and instruction manual; optional Krusell® belt clip and attachments accessory.

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Gauge	Cygnus 4 GENERAL PURPOSE
Materials	Sound velocities from 1,000 - 9,000 m/s (0.0390 - 0.3543 in/us)
Accuracy	±0.1 mm (±0.004") or 0.1% of thickness measurement, whichever is greatest, when calibrated in accordance with Cygnus Instruments calibration procedure
Resolution	0.1 mm (0.005") or 0.05 mm (0.002")
Probe Diameters & Frequencies	Single crystal probes: • 6 mm (0.25") - 5 MHz (S5A) • 13 mm (0.5") - 2.25 MHz (S2C (standard)), 3.5 MHz (S3C) or 5 MHz (S5C) • 19 mm (0.75") - 2.25 MHz (S2D)
Measurement Range in Steel	Single crystal probes: • 1 - 250mm (0.040" - 10.00")
Connector	1 x Lemo 1
Power	3 x AA batteries
Battery Life	10 hours minimum
Electronics	Dual channel pulser
Display	2.4" quarter VGA LCD
Display Info.	Thickness value
Size	132 mm x 82 mm x 34 mm (3.3" x 5.1" x 1.4") (W x H x D)
Weight	300 grams (10.5 oz.) (inc. batteries)
Operating Temp.	-10°C to 55°C (14°F - 131°F)
Environmental Rating	IP67 MIL STD 810G Method 501.6 (high temp +55°C (131°F)) MIL STD 810G Method 502.6 (low temp -20°C (-4°F)) MIL STD 810G Method 507.6 (humidity 95%) MIL STD 810G Method 512.6 (immersion - 1 metre for 30 mins)
Shock and Impact	MIL STD 810G Method 514.7 (vibration - 1 hour each axis) MIL STD 810G Method 516.7 (shock 20g - 11ms half sine shock pulse, 40g 11ms in each axis) MIL STD 810G Method 516.7 (26 drops - transit drop 1.22 m)
Compliance	CE, British Standard BS EN 15317:2013 (specification for the characterisation and verification of ultrasonic thickness measuring equipment)
Environmental	RoHS, WEEE compliant
Warranty	3 years on gauge and 6 months on probes

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