



*With IP65 & IP67
rated protection*

Cygnus 2 Hands free

for safer thickness gauging in difficult conditions

MULTIPLE ECHO ULTRASONIC DIGITAL THICKNESS GAUGE

Measures metal thickness to determine wastage or corrosion – accurately, quickly and without removing protective coatings.



Primary New Features

- Light, rugged, small and shock-proof within IP65 and IP67 sealed aluminum enclosure
- Gauge senses probe type and automatically adjusts settings for optimum performance
- Hands free operation: belt/harness clip and neck strap included
- Display brightness automatically adjusts to suit ambient light conditions
- Simple keypad operation
- Protective silicone sleeve offers maximum protection and versatility
- Rugged probe cable designed for superior flexibility
- Deep-Coat mode for coatings up to 20 mm thick
- Secure, twist-to-lock probe connection (BNC)

The new Cygnus 2 is the smallest, lightest and most durable through coating thickness gauge available.

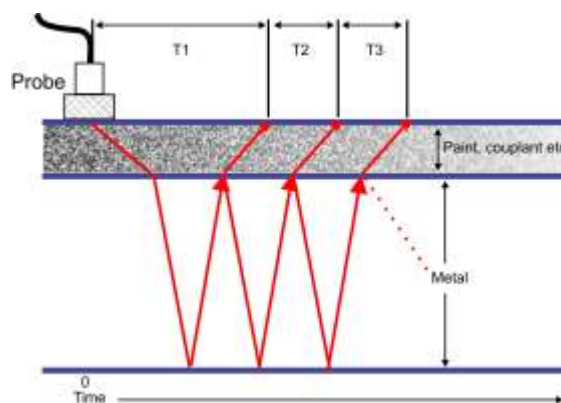
Simple to use – just turn on and go!

Perfect for use on flat surfaces or pipes. Our multiple echo single crystal probe technology means you can measure through thick coatings and only the remaining metal thickness is displayed.



Benefits of Cygnus Multiple Echo

- Measures remaining metal thickness on corroded and coated surfaces
- All measurements are error checked using 3 return echoes to give repeatable, reliable results
- Accepted by all major Classification Societies
- Greatly reduces inspection time and costs
- Echo strength indicator to aid measurement



With multiple echo, readings are taken by measuring the time delay between any three consecutive backwall echoes. The time of T1 (including coating thickness) is ignored. The times of T2 and T3 are equal to the time that it takes to travel through the metal. Only by looking at three echoes can the measurements be automatically verified (where $T2 = T3$).



Applications

Maintenance and safety checks of metal thickness for:

- Rope Access
- Shipping
- Storage tanks
- Pipelines
- Bridges
- Street lighting columns
- LPG vessels
- Road transport tankers
- Offshore platforms
- Piers, jetties and pilings
- ...plus many more

Kit contents

Instrument, 2.25 MHz x 13 mm diameter probe, spare membranes, 15 mm steel test block, membrane couplant, ultrasonic couplant, accessory pouch, protective silicone sleeve with belt/harness clip, neck strap, operation manual, blue high flex probe cable and carry case.



Specification

Materials	Sound velocities between 2000 m/s and 7000 m/s – covers virtually all common engineering materials
Measurement Range in steel	3 mm – 250 mm with 2.25 MHz probe 2 mm – 150 mm with 3.5 MHz probe 1 mm – 50 mm with 5 MHz probe
Accuracy	±0.1 mm or ±0.05 mm (selectable)
Resolution	0.1 mm or 0.05 mm (selectable)
Probes	Single crystal soft-faced compression 6 mm – 5 MHz 13 mm – 2.25, 3.5 or 5 MHz 19 mm – 2.25 MHz <small>(Lower frequency probes offer better penetration on heavy corrosion/coatings)</small>
Power	2 x 'AA' alkaline batteries or rechargeable NiMH / NiCD
Battery life	Up to 20 Hours' continuous operation with alkaline batteries
Display	Large red LED display with polarised filter. Brightness automatically adjusted to suit ambient light conditions
Size	85 mm x 115 mm x 25 mm
Weight	275 g (inc batteries)
Operating Temp	-10°C to +50°C
Environmental Protection	IP65 and IP67
Compliance	CE, British Standard BS EN 15317:2007 <small>(Specification for the characterisation and verification of ultrasonic thickness measuring equipment)</small>
Environmental	RoHS, WEEE compliant

Specifications are subject to change for product improvement

Cygnus Thickness Gauges



Heavy Duty



Intrinsically Safe



Underwater



ROV Mountable



General Purpose



Data Logger

For more products, please visit www.cygnus-instruments.com



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