Cygnus 2 Hands Free

MULTIPLE ECHO ULTRASONIC DIGITAL THICKNESS GAUGE

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

Features

- OLED Multi Functional display with improved readability in all lighting conditions

- Enhanced battery life

- Light, rugged, small and shock-proof 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 adjustable 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 (3/4") thick

- Secure, twist-to-lock probe connection (BNC).

The 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 structures

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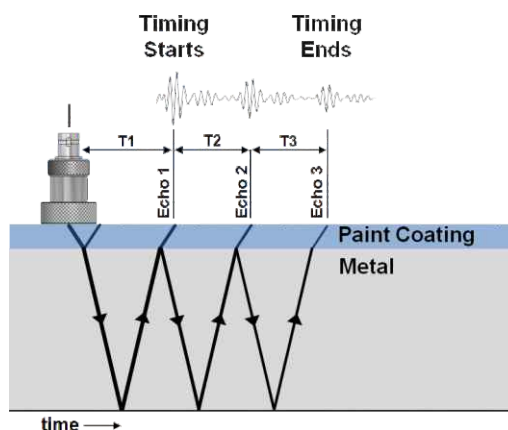
With multiple echo, readings are taken by measuring the time delay between any three consecutive backwall echos. The time of T1 (coating thickness) is ignored. The times of T2 and T3 are equal to the time that it takes to travel through the metal. Only by looking at three echoes can the measurements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

**Bright and Clear
Organic LED Display**

Type Approved

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 (1/2") diameter probe, spare membranes, 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.

Belt/Harness Clip

Specifications

Materials	Sound velocities between 2000 m/s to 7000 m/s (0.059 - 0.31 in/microsec) - covers virtually all common engineering materials
Measurement Range in Steel	3 mm - 250 mm (0.110" - 9.995") with 2.25 MHz probe 2 mm - 150 mm (0.065" - 6.000") with 3.5 MHz probe 1 mm - 50 mm (0.045" - 4.000") with 5.0 MHz probe
Accuracy	0.1 mm (0.005") when calibrated in accordance with Cygnus Instruments Calibration Procedures
Resolution	0.1 mm or 0.05 mm (0.005" or 0.002") (selectable)
Probes	Single crystal soft-faced compression 6 mm (1/4") - 5 MHz 13 mm (1/2") - 2.25, 3.5 or 5 MHz 19 mm (3/4") - 2.25 MHz (Lower frequency probes offer better penetration on heavy corrosion/coatings)
Power	2 x 'AA' alkaline batteries or rechargeable NiMH / NiCD
Battery Life	Up to 30 hours' continuous operation with alkaline batteries
Display	Large blue Organic LED display Brightness adjustable to suit ambient light conditions
Size	85 mm x 115 mm x 25 mm (3 3/8" x 3 1/2" x 1")
Weight	275 g (9.7 oz) (inc. batteries)
Operating Temp.	-10°C to +50°C (14°F to 122°F)
Environmental Protection	IP65 & IP67
Compliance	CE, British Standard BS EN 15317:2007 (Specification for the characterisation and verification of ultrasonic thickness measuring equipment)
Environmental	RoHS, WEEE compliant
Warranty	3 years on gauge, 6 months on probe

*Specifications are subject to change for product improvement

Cygnus Thickness Gauges

Intrinsically Safe

Data Logger

General Purpose

Heavy Duty

Underwater

DIVE
(Underwater A-Scan)

Mini ROV Mountable

ROV Mountable

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