Cygnus DIVE Underwater Mk 2 Ultrasonic Thickness Gauge

Specifications

Display	2.8” quarter VGA colour AMOLED (320x240 pixels) Large clear thickness measurement (15mm high numbers) A-Scan display with automatic X axis Battery level, signal strength, probe type, velocity Measurement mode and units indication.
Battery	Single 3.6V Li-ion 8.2 W battery 11 hours continuous measurement Low battery warning ‘alert’ message.
Measurement Modes	Single echo (first back-wall echo) using Twin Crystal probes Multiple echo (three back-wall echoes) using Single Crystal (zero-degree) probes. Automatically ignores surface coatings and measures only metal thickness.
Deep Coat	For use with Multiple Echo mode. Allows measurement to be made through thicker coatings of suitable materials ¾” (20mm).
Probes	Single Crystal probes: 2.25MHz ¾” (19mm) 2.25MHz ½” (13mm) (standard) 3.5MHz ½” (13mm) 5.0MHz ¼” (6mm) Twin Crystal probes: 2.0MHz ½” (13mm x 2) (for cast irons etc.) 5.0MHz 5/16” (8mm x 2) (standard)

Cygnus Instruments, Inc • PO Box 6417 • Annapolis • Maryland • 21401 • USA
Tel: 410-267-9772 • Fax: 410-268-2013 • Email: sales@cygnusinstruments.com • Web: www.cygnusinstruments.com

Cygnus DIVE Underwater Mk 2 Ultrasonic Thickness Gauge

Probe Cables	Custom designed for marine use. Double outer jacket in tough PU. Coloured yellow for easy locations under water. Coiled for ease of use. Fischer S105 series connectors.
Measurement Ranges	Multiple Echo with Single Crystal probes: 2.25MHz = 0.110” to 9.995” (3.0 to 250mm) 3.5MHz = 0.065” to 6.000” (2.0 mm to 150mm) 5.0MHz = 0.045” to 4.000” (1.0 to 50mm) Single Echo with Twin Crystal probes: 2.0MHz = 0.065” to 8.000” (2.0 to 200mm) 5.0MHz = 0.060” to 8.000” (1.5 to 200mm)
Measurement Resolution	Multiple Echo with Single Crystal probes: 0.005” or 0.002” (0.1mm or 0.05mm) Single Echo with Twin Crystal probes: 0.005” or 0.001” (0.1mm or 0.01mm)
Measurement Units	inches or mm.
Automatic Probe Detection	Electrically ‘coded’ probes for reliable detection of the connected probe type. User can also manually select probe type.
Probe Zero	Fully automatic probe zeroing for all probes types.
V-Path Correction	Automatic V-Path correction for all Twin Crystal probes.
Velocity Range	2000 to 9000m/s in 1m/s setps.
Pulser	Twin channel 70 V spike pulser.
Receiver / Amplifier	10MHz bandwidth, 120 dB range, automatic TCG 60 MHz measurement time-base.
Data Logging	One-handed automatic logging of stable measurements. Capacity for up to 5000 points including 640 point A-Scan data.
Data Output	RS-485 single pair, half duplex for surface connection.
Computer Software	CygLink v4 allows remote logging and viewing of A-Scan graphs. Survey and report generation to PDF file. Graphic analysis of data and statistical calculations. Designed for Windows 7 and Windows 8.
Video Overlay (***Optional Extra***)	Allows thickness measurement and calibration setting to be visible on-screen at the surface whilst the survey is being performed underwater.
HelmetView™ (***Optional Extra***)	Small remote display mounted in front of the lens on the diver’s helmet using the accessory screw, a short cable then plugs in to the Cygnus DIVE's top side data connector

Cygnus Instruments, Inc • PO Box 6417 • Annapolis • Maryland • 21401 • USA
Tel: 410-267-9772 • Fax: 410-268-2013 • Email: sales@cygnusinstruments.com • Web: www.cygnusinstruments.com