



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE-UK-INDIA-AZERBAIJAN-SINGAPORE



CYGNUS DIVE Mk2 ULTRASONIC THICKNESS GAUGE



The **Cygnus DIVE** is a wrist-mountable, simple to operate subsea ultrasonic thickness gauge. This very robust unit provides an invaluable free hand while performing remaining metal thickness measurements.

The large display is easily viewable by both the diver and his camera – even in the poorest visibility. The unit has only two buttons for easy navigation of an intuitive, clear menu.

With its bright, very large, AMOLED display the Cygnus DIVE is simple to operate, providing accurate and reliable thickness measurements, underwater. Depth rated to **300 metres**.

Available with data logging, topside, HelmetView™ and twin crystal probe options.

MSI™ Measurement Stability Indicator – this is a feature exclusive to the Cygnus. When using the DIVE Gauge in Single-Echo and Echo-Echo modes, MSI™ confirms when a reading is stable by turning the thickness measurement numbers from red to yellow.

Cygnus Instruments builds all of its equipment using only genuine and original parts and components – including Lemo® Connectors and Peli® Cases.

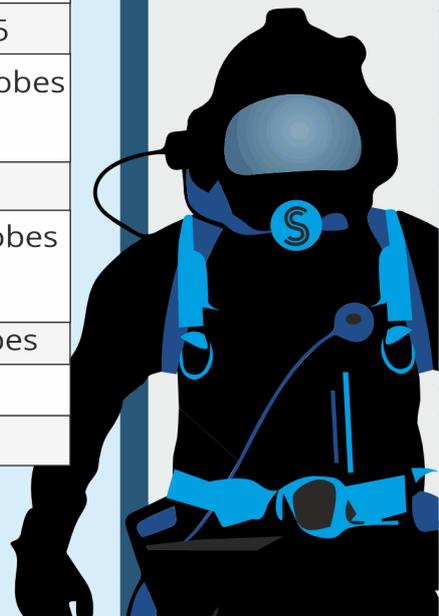




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Specifications	Details
Display	2.8" quarter VGA colour LCD (320 x 240 pixels). Large clear thickness measurement (15mm high numbers), viewable from all angles. A-scan display with automatic X axis. Battery level, signal strength, probe type, velocity. Measurement mode and units indication
Battery	Single 3.6V Li-ion 8.2 W battery. 10 hours continuous measurement Low battery warning 'alert' message
Measuring Modes	Multiple-Echo using 3 echoes to ignore coatings up to 20mm thick. Echo-Echo using 2 echoes to ignore coatings up 1mm thick. Single-Echo using 1 echo
Deep Coat	In Multiple-Echo mode, allows measurement to be made through thicker coatings of suitable materials of up to 20mm thick
Accuracy	±0.1 mm or 0.1% of thickness measurement, whichever is greatest, when calibrated in accordance with Cygnus Instruments calibration procedure
Probe Options	Single crystal probes and Twin crystal probes
Probe Cables	Double outer jacket in tough PU. Coloured yellow for easy locations underwater. Coiled for ease of use. Fischer S105 series connectors.
Measurement Range in Steel	1 - 250 mm (0.039 - 10 in.) depending on selected probe and configuration, material and temperature
Measurement Resolution	Multiple-Echo with single crystal probes - 0.1 or 0.05 mm Single-Echo and Echo-Echo with twin crystal probes - 0.1 or 0.01 mm
Measurement Units	mm or inches
Probe Zero	Probe Zero Fully automatic probe zeroing for all probes types
V-Path Correction	Automatic V-Path correction for all twin crystal probes
Velocity Range	Velocity Range 2000 to 9000 m/s in 1 m/s steps
Pulser	Twin channel 70 V spike pulser



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Receiver/Amplifier	10 MHz bandwidth, 120 dB range, automatic TCG. 60 MHz measurement time-base
Data Logging (optional)	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
Standards	Designed for EN 15317
Compliance	CE, UKCA, RoHS
Warranty	3 years on gauge and 6 months on probe

Key Features:

- 300 m (1,000 ft) depth rated
- Wrist-mountable, giving the diver a free hand
- A-Scan (selectable)
- Data logging – stores 5,000 measurements and A-Scans
- “Auto-Log” – no log button to press
- AMOLED display, easy viewing from all angles for diver and camera
- Multiple-Echo, error- checked measurements through coatings up to 20 mm thick
- Single-Echo – for use on uncoated surfaces with heavy back-wall corrosion/pitting
- MSI™ Measurement Stability Indicator – exclusive to Cygnus, confirms a stable reading in Single-Echo and Echo-Echo modes
- Echo-Echo – for use on painted surfaces with heavy back-wall corrosion/pitting (through up to 0.5 mm paint)
- HelmetView™ – optional remote display.





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Kit Content:

- Cygnus DIVE Gauge Body and Wrist Strap
- Ultrasonic Probe(s) with Coiled Cable
- Two Rechargeable Batteries
- Membrane Couplant, 25ml bottle
- Battery Charger and Charger Base
- AC Mains Lead for Battery Charger
- Ultrasonic Couplant Gel (Blue), 100ml bottle
- Test Block 15mm thick in Mil Steel
- Spare Probe Membranes
- Membrane Key
- Silicone Grease, 50g tube
- USB Flash Drive with Documentation
- Calibration Certificate
- Operating Manual





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SYNERGY INFRASTRUCTURE





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Contact us



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