



Submarine Manufacturing & Products Limited

+44 (0)1772 687775 info@smp-ltd.co.uk www.smp-ltd.com
Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

PRODUCT DATASHEET

Cygnus Dive Multiple Echo Ultrasonic Thickness Gauge



THIS PRODUCT HAS THE FOLLOWING OPTIONS:

No product options are available.

OVERVIEW

The latest innovation from the pioneers of the digital multiple echo ultrasonic thickness gauge the Cygnus DIVE is designed for the professional diver and is accurate reliable and easy to use.

FEATURES



Submarine Manufacturing & Products Limited

+44 (0)1772 687775 info@smp-ltd.co.uk www.smp-ltd.com
Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

A-Scan Display: To assist with the verification of thickness measurements and to help locate suitable ultrasound reflectors on badly corroded metal the Cygnus DIVE can display an AScan graph of the ultrasound received. When a multiple echo thickness measurement is detected the ultrasound peaks used are clearly marked to aid measurement confirmation.

Surface View: The A-Scan graph can be viewed at the surface on a computer using Cygnus DIVElink software and the A-Scan graph is also recorded when data logging thickness measurement points.

Data Logging Option: The Cygnus DIVE can store up to 5000 thickness measurement points in internal flash memory.

Auto-Log: Thickness measurements are recorded using an Auto-Log feature that saves each stable measurement - this means no "log" button for the diver to press.

A-Scan Graph: Along with the thickness measurement a copy of the A-Scan graph is also saved.

Reporting: Data logged measurements are easily transferred from the Cygnus DIVE to a computer using the DIVElink software supplied. From there a paper report can be produced or the thickness measurements can be exported to a spreadsheet.

Grouping: Measurements can be split into groups by simply starting a new group via the DIVE's easy to use menu.

SPECIFICATION

Cygnus Dive Kit Contents - Cygnus DIVE Gauge - Two Rechargeable Batteries - Fast Charger - Ultrasonic Probe (2.25 MHz) - User Manual - Spare Membranes - Membrane Key - Test Block

Specifications

Size: 105 mm x 110 mm x 35 mm (4.1 in x 4.3 in x 1.4 in)

Battery: Battery Life Rechargeable Lithium-Ion Battery Pack 10 hours

Weight in Air: Complete Gauge 905 g (2 lb.)

Operating Temp: -10°C to +50°C (14°F to 122°F)

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 5.0 MHz probe

Accuracy: $\hat{A}\pm 0.05$ mm ($\hat{A}\pm 0.002$ ") High Resolution (<100 mm) ± 0.1 mm ($\hat{A}\pm 0.005$ ") Low Resolution

Display: 2.4" Colour TFT with LED Backlight 320 x 240 pixels



Submarine Manufacturing & Products Limited

 +44 (0)1772 687775  info@smp-ltd.co.uk  www.smp-ltd.com
Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

Receiver: Automatic TCG 1 to 10 MHz Bandwidth 10 Bit Digitiser 60 MSPS

Data Storage: 32 Mb Flash Memory (5000 Measurement Points)

Warranty: 3 years on DIVE Gauge 6 months on Probe

Data Output: RS-485 Half Duplex to DIVELink

Certification: BS EN 15317:2007

Depth Rating: IP68 Rated to 300 m (984 ft) continuous immersion in sea water

Options and Accessories

DIVELink Software: Allows remote display of thickness measurements on a computer via two-wire serial data link.

Data Logging: Adds Data Logging features to the DIVE gauge including DIVELink software for data transfer.

HelmetView & Display: Remote display with fixing bracket for Kirby Morgan helmets with an accessory mounting point.

Top Side Repeater: The Cygnus Top Side Repeater is a self-contained remote display unit that can relay the thickness measurement values to the surface. There is also an option to overlay the thickness measurements on a composite video signal for survey video recording purposes.

Umbilical Cables: Cygnus can provide umbilical cables to connect the Cygnus DIVE gauge to surface equipment. Custom lengths can be accommodated up to 500 meters.

ORDER THIS PRODUCT

To order this product or to request a price contract our UK sales team on
+44 (0)1772 687775

Alternatively you can place a quote request through our website
<http://www.smp-ltd.co.uk> or send an email to sales@smp-ltd.co.uk