

#### RELIABLE ULTRASONIC MEASUREMENT



# CYGNUS ROV MOUNTABLE ULTRASONIC THICKNESS GAUGE

MADE IN

Specifically designed for underwater remotely operated vehicles, Cygnus offers a dedicated ROV mountable thickness gauge, ROV MK5 UTG Kit (depth rated to 500 meters (1,640 ft)). This gauge is versatile and designed to measure metal thickness in the harshest subsea operating conditions - without the need to remove coatings.











HULL UTM

CIVIL ENGINEERING MARINE STRUCTURES OFFSHORE PLATFORMS

...UWILD or IWS class surveys, subsea inspection, repair and maintenance (IRM) of infrastructure, underwater equipment







# **OPTIONS AND ACCESSORIES**

## **Engineered Probe Handling** Solutions

## **Topside Repeater Remote Display Unit**

## **Topside Repeater with Video** Overlay

# **CYGNUS ROV MOUNTABLE KEY FEATURES**



- Multiple-Echo mode for accurate, through-coat measurements as specified by Classification Societies
- Supplied with CygLink software to display and process measurements on a computer at the surface
- Selectable Deep-Coat mode ignoring coatings up to 20mm (3/4") thick
- · Fitted with a safety Pressure Relief Valve and Securing Eye
- Easy calibration at the surface via CygLink software or TopSide Repeater (TSR) unit
- Removable end plate for full serviceability
- · Wet mateable 'MC' style underwater connectors.
- Optional Topside Repeater (TSR) unit allowing readings to be displayed remotely and superimposed onto ROV's camera screen
- · Optional purpose-built ROV probe handlers for optimal alignment







**CYGLINK DEPTH RATED** TO 500 METERS SOFTWARE (1,640 FT)

**TOPSIDE** REPEATER OPTION

UNDERWATER CONNECTORS





Cygnus G1

**Cyglink Computer Software** 

CygLink is a Windows® application that

allows remote viewing, control and data

logging of the ROV gauge. The software

can generate survey reports in PDF or

export to a CSV file. Designed for

Windows® 7 and above.

Cygnus W1

Cygnus S1

## CYGNUS ROV MOUNTABLE SPECIFICATION

Feature	Description
Materials	Velocities between 2000 m/s and 7000 m/s (0.0800 and 0.2780 in/microsec)
Measurement Range in Steel	1 mm - 250 mm (0.040" - 10.000") depending on selected probe and configuration, material and temperature
Accuracy	±0.1 mm (±0.004") or 0.1% of thickness measurement, whichever is greatest, when calibrated in accordance with Cygnus Instruments calibration procedure
Resolution	0.1 mm or 0.05 mm (selectable) (0.005" or 0.002")
Probe Options	Single crystal probes
Power	7.0 - 30 V DC @ 150 mA (max)
Size	127mm long x 90mm diameter (5 in x 3.5 in)
Weight in Air	900g (2 lb)
Operating Temp.	-10°C to +50°C (14°F to 122°F)
Testing	Depth rated to 500 meters (1,640 ft)
Communication	RS-422, Simplex Single Pair or RS-232 TXD 2400 or 9600 Baud (selectable via DIP switches)
Standards	Designed for EN 15317
Compliance	CE, UKCA, RoHS
Warranty	3 years on gauge and 6 months on probe



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