



RELIABLE ULTRASONIC MEASUREMENT



## CYGNUS ROV MOUNTABLE ULTRASONIC THICKNESS GAUGE



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.

IDEAL FOR  
USE IN



HULL UTM  
INSPECTION



CIVIL  
ENGINEERING



MARINE  
STRUCTURES



OFFSHORE  
PLATFORMS

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



## 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



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



**CYGLINK SOFTWARE**



**TOPSIDE REPEATER OPTION**



**WET-MATEABLE UNDERWATER CONNECTORS**



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## OPTIONS AND ACCESSORIES

### Engineered Probe Handling Solutions

Constructed from 316 stainless steel throughout, the W1 probe handler can be held by a manipulator arm and is ideal for use on Work Class ROVs. The Cygnus S1 and G1 Probe Handlers are developed for use on inspection, observation or light work-class ROVs.



### Cymlink 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.



### Topside Repeater Remote Display Unit

The Cygnus Topside Repeater is a remote display unit connected to the gauge with an umbilical cable. It displays the thickness measurements at the surface in real-time during the survey.

### Topside Repeater with Video Overlay

The Topside Repeater can also overlay the real-time thickness measurements on to a composite video signal, displaying it on the survey monitor screen. It will also then be recorded (if there is a video of the survey), showing exact locations and the thickness measurement for future reference.

## 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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*All information provided is subject to change without prior notice.*

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