

# CYGNUS

MINI ROV MOUNTABLE

## MULTIPLE ECHO ULTRASONIC

Digital Thickness Gauge

### APPLICATIONS

Designed specifically to mount onto small inspection ROV's.

Metal thickness and corrosion checks on offshore structures, ships and wrecks.

Safety corrosion monitoring of pipelines and storage vessels.

Metal thickness / wear checks on jetties, dock gates, piers and pilings.

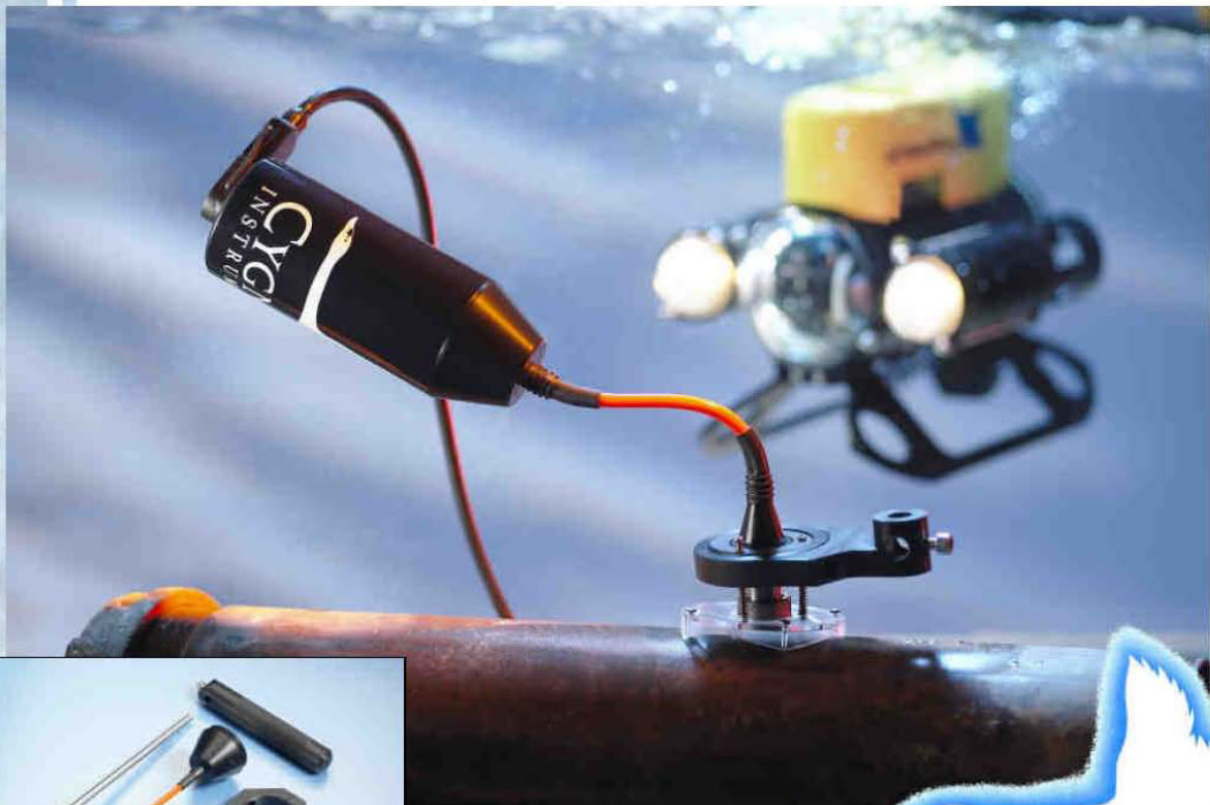
Ships classification surveys.

Maintenance and safety checks on bridges.

**Measures metal thickness to determine wastage or corrosion - accurately, quickly and *without removing surface coatings.***

Cygnus multiple echo, single crystal probes mean:-

- Coatings do not have to be removed - measures only the metal thickness.
- Accepted by major classification societies.
- No grinding - minimum surface preparation.
- Measures on rough corroded surfaces.
- Speed, accuracy and reliability.
- No false readings - repeatable results.
- Easy to use - minimum operator training.
- Greatly reduced inspection time and cost.
- Measures on metals and some other materials.



Optional probe holder and mounting kit

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**CYGNUS**  
INSTRUMENTS LTD  
ULTRASONIC NDT EQUIPMENT

# DEDICATED MINI ROV THICKNESS GAUGE

The mini ROV mountable thickness gauge has been specifically designed to be mounted onto small inspection ROV's with or without a manipulator facility. Designed in conjunction with VideoRay, the gauge will allow the operator to carry out thickness measurements in areas that have previously been unfeasible using large ROV's or divers, such as inside pipelines. The unit is pressure tested to 500 m. Dedicated software displays the time, date and thickness readings on the surface and all of these can be stored.

## FEATURES

- ◆ Pressure tested to 500m
- ◆ Optional dedicated probe holder to allow measurements on curved or flat surfaces
- ◆ Small, lightweight and easy to install
- ◆ Only one twisted pair is required to transfer the data to the surface
- ◆ Power supply taken locally from the ROV
- ◆ The probe does not need to touch the surface under test, measurements can be taken through 5 mm of water
- ◆ Readings are not influenced by the probe orientation
- ◆ Dedicated software for displaying the measured results, storing the measurements and setting the calibration of the gauge

## SPECIFICATION

Materials	Sound velocities between 1000 m/s and 9995 m/s		
Range	3 mm - 250 mm with 2.25 MHz probe 2 mm - 150 mm with 3.5 MHz probe 1 mm - 50 mm with 5 MHz probe		
Accuracy Resolution	±0.1 mm 0.1 mm	OR	±0.05 mm 0.05 mm
Probes	Remote single crystal soft-faced compression. 13 mm - 2.25, 3.5 or 5 Mhz 19 mm - 2.25 MHz		
Power	7.5 - 30 V dc @ 150mA (max)		
Size	160 mm x 62 mm		
Weight in air	550g		
Operating Temp.	-10°C to +50°C		
Communication	Standard RS-422		

## KIT CONTENTS

Instrument, heavy duty remote 2.25 MHz 13 mm diameter probe with 0.25 m of cable, sealed 4-way connector with fly lead, RS-422 to RS-232 converter, test lead, remote display and datalogging software (Windows compatible), spare membranes and 'O' rings, steel test block, operation manual and carry case.

## SURFACE REQUIREMENT

(Not included)

PC or laptop (486 minimum) with VGA screen and one free serial comms or USB port.



3 year warranty

OPTIONAL VIDEORAY MOUNTING KIT AVAILABLE



BS EN ISO9001: 2000

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