

CYGNUS¹

UNDERWATER

MULTIPLE ECHO ULTRASONIC Digital Thickness Gauge

APPLICATIONS

Metal thickness and corrosion checks on offshore structures and ships.

Safety corrosion monitoring of pipelines and storage vessels.

Metal thickness / wear checks on anchor chains, 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.

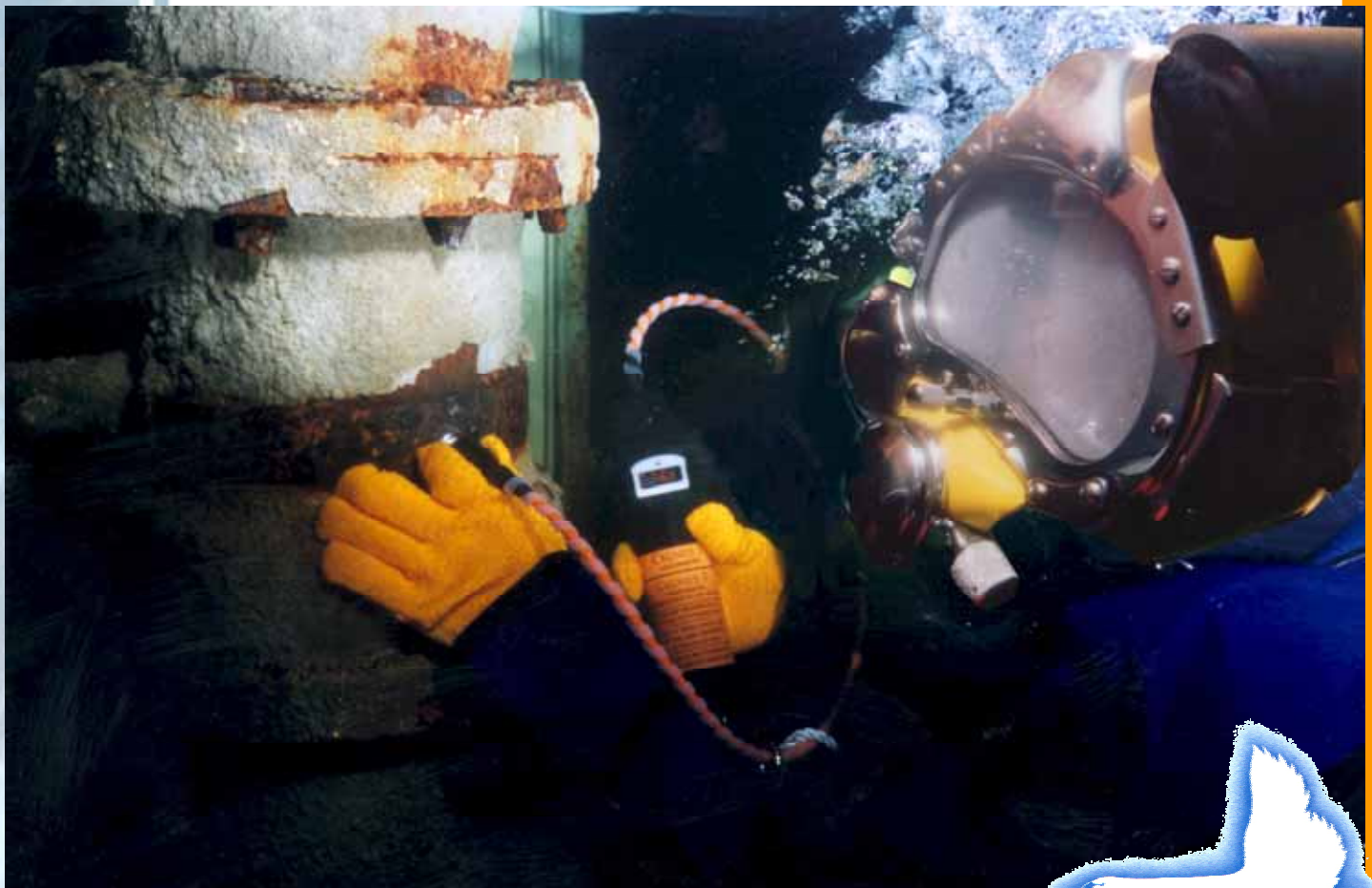


Photo courtesy of KCI Technologies, Inc



CYGNUS
INSTRUMENTS LTD
ULTRASONIC NDT EQUIPMENT

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Digital Thickness Gauge

FEATURES

- ◆ Pressure tested to 300 m.
- ◆ Heavy duty sealed unit with double 'O' ring protection.
- ◆ Remote probe with 0.9 m lead for measuring in awkward locations.
- ◆ Rugged durable shock proof construction.
- ◆ Stable calibration - linear accuracy - no zero adjustment.
- ◆ Various probe options.
- ◆ Large bright L.E.D display for poor visibility.
- ◆ Rechargeable batteries with charger.
- ◆ All probes are protected by a membrane to prevent damage.
- ◆ Self verification of the measurements to ensure accuracy.



SPECIFICATION

Materials	Sound velocities between 2000 m/s and 7000 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	±0.1 mm	±0.05 mm
Resolution	0.1 mm	0.05 mm
Probes	Remote single crystal soft-faced compression. 6 mm - 5 Mhz 13 mm - 2.25, 3.5 or 5 Mhz 19 mm - 2.25 MHz	
Power	NiMH rechargeable batteries	
Display	Large clear L.E.D. display with polarised filter	
Size	238 mm x 85 mm	
Weight	977 gms with remote probe	
Operating Temp.	-10°C to +50°C	

KIT CONTENTS

Instrument, heavy duty remote 2.25 MHz 13 mm diameter probe, 2 rechargeable batteries and battery charger, spare membranes and 'O' rings, steel test block, lanyard, calibration trim tool, operation manual and carry case.



3 year warranty

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TOPSIDE REPEATER OPTIONS



The topside repeater is available in case of poor visibility or when the readings need to be verified on the surface. Umbilical cable length is specified by the customer up to a maximum of 1000 m. There are two options available:

OPTION A

Palm held surface display repeater with large liquid crystal display and an IP65 sealed case.

OPTION B

Datalogging and remote display windows based software. The umbilical is connected directly to the serial port of the PC. *(The PC is not included)*



BS EN ISO9001: 2000

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Specifications are subject to change for product improvement

CYG S.038 ISS3