



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

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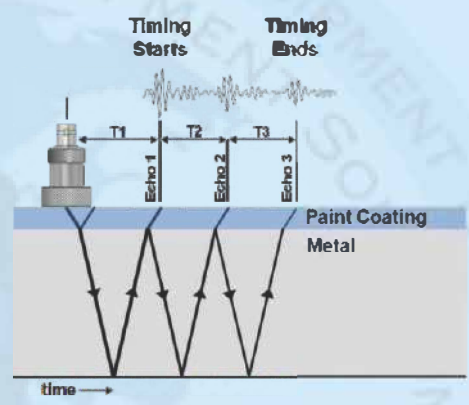


CYGNUS ULTRASONIC THICKNESS METER SY-CYGNUS-UT



BENEFITS OF MULTIPLE-ECHO

- Measures remaining metal thickness on corroded and coated structures
- All measurements are error checked using 3 return echoes to give repeatable, reliable results
- Accepted by all major classification societies
- Greatly reduces inspection time and costs
- Echo strength indicator to aid measurement.



KEY FEATURES

- RINA Type-Approved (Certificate No. 2009DGPO787)
- Auto - Probe Recognition (APR)
- "Deep-Coat" mode for measuring through coatings up to 20 mm (3/4") thick
- Easy calibration using one single button
- Rugged, durable, shock-proof construction
- Stable calibration - linear accuracy - no zero adjustment
- Large bright LED display for poor visibility
- Pressure rated to 300 m (1,000 ft) depth
- Heavy duty sealed unit with double 'O' ring protection
- Self verification of measurements to ensure accuracy
- Echo strength indicator to aid measurement
- All probes are protected by a membrane to prevent damage
- Various probe options
- Two rechargeable battery packs with charger
- Fixed head probe option for single handed use.

With multiple echo, readings are taken by measuring the time delay between any three consecutive backwall echos. The time of T1 (coating thickness) is ignored. The times of T2 and T3 are equal to the time that it takes to travel through the metal. Only by looking at three echos can the measurements be automatically verified (where T2=T3).

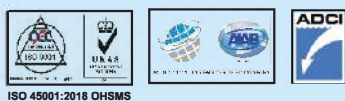
SURFACE/TOPISDE OPTIONS

Upgrade Kit A - This Topside Display Option is a hand held surface repeater. It has a large LCD display in an Ip65 sealed housing.

Upgrade Kit B - This uses CygLink (Windows based software) installed on a computer. This displays real-time readings which can then be logged.

Unbiblical cable length is specified by the customer up to a maximum of 1000 metres (3,280ft)





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APPLICATIONS

Maintenance and safety checks of metal thickness for:

- Ships hulls
- Semi sub structures
- Subsea pipelines
- Offshore structures, jackets
- Storage vessels, FPSO's
- Dock gates, piers, jetties and pipings.

...plus many more.

KIT CONTENTS

Instrument, heavy duty remote 2.25 MHz 13 mm (1/2") diameter probe, nose cone tommy bar, probe locking ring key, 2 rechargeable batteries and battery charger, spare membranes and 'O' rings, steel test block, lanyard, operation manual, pressure test and calibration certificates, Molykote grease and carry case.



SPECIFICATION

Materials	Sound velocities between 2000 m/s and 7000 m/s (0.059 and 0.31 in/microsec) - covers virtually all common engineering materials
Measurement Range in Steel	3 mm - 250 mm (0.110" - 9.995") with 2.25 MHz probe 2 mm - 150 mm (0.065" - 6.000") with 3.5 MHz probe 1 mm - 50 mm (0.045" - 4.000") with 5.0 MHz probe
Accuracy	0.1 mm (0.005") when calibrated in accordance with Cygnus Instruments Calibration Procedures
Resolution	0.1 mm or 0.05 mm (selectable) (0.005" or 0.002")
Probes	Remote single crystal soft-faced compression: 6 mm (1/4") - 5 MHz 13 mm (1/2") - 2.25, 3.5 or 5 MHz 19 mm (3/4") - 2.25 MHz (Lower frequency probes offer better penetration on heavy corrosion/coatings)
Power	NiMH rechargeable battery pack
Battery Life	30 hours' (continuous measuring)
Display	Large, bright LED display
Size	235 mm x 75 mm (8 3/8" x 3")
Weight	950 g (2.1 lbs) - with remote probe 860 g (30.3 oz) - with fixed head probe
Operating Temp.	-10°C to +50°C (14°F to 122°F)
Environmental Protection	IPX8 continuous 300 m (984 ft) rating
Compliance	CE, British Standard BS EN 15317:2013 (Group 1) (Specification for the characterisation and verification of ultrasonic thickness measuring equipment)
Environmental	RoHS, WEEE compliant
Warranty	3 years on gauge, 6 months on probe

*Specifications are subject to change for product improvement

SYNERGY INFRASTRUCTURE





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