



# CYGNUS<sup>1</sup>

INTRINSICALLY SAFE

**Ex II 1 G EEx ia IIC T6**

## APPLICATIONS

Maintenance and safety checks on petroleum, chemical and LPG storage tanks.

Corrosion checks on ships' shell plates, bulkheads and inside enclosed areas.

Metal thickness safety checks on steam and pressurised water systems, transportable gas containers and compressed air systems.

Systematic wall thickness and corrosion monitoring of storage tanks and process vessels.

Quality assurance metal thickness checks.

Metal thickness monitoring on cranes, marine structures and conveying systems.

Pipeline wall thickness monitoring.

## MULTIPLE ECHO ULTRASONIC

Digital Thickness Gauge

**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.



**CYGNUS**  
INSTRUMENTS LTD  
ULTRASONIC NDT EQUIPMENT

# CYGNUS<sup>1</sup>

INTRINSICALLY SAFE

## MULTIPLE ECHO ULTRASONIC

Digital Thickness Gauge

### FEATURES

- Certified Intrinsically Safe to Ex II 1 G EEx ia IIC T6 (CSA Class 1 Group A Division 1)
- For use in hazardous areas
- No plant shut down or hot work permit necessary
- Heavy duty sealed unit - highly water / dirt / dust resistant
- Rugged construction - shock proof
- Stable calibration - linear accuracy - no zero adjustment
- Self verification of the measurements to ensure accuracy
- Various probe options
- Rechargeable batteries with charger
- Displays sound velocity settings
- Echo strength indicator to aid measurement
- Bright L.E.D display with polarised filter
- Low battery warning
- Metric / Imperial switchable



abc def

BS EN ISO9001: 2000

**CYGNUS**  
INSTRUMENTS LTD  
ULTRASONIC NDT EQUIPMENT

Cygnus House,  
30 Prince of Wales Road, Dorchester,  
Dorset, DT1 1PW, England.

Telephone : +44 (0) 1305 265533  
Facsimile: +44 (0) 1305 269960  
E-Mail: [sales@cygnus-instruments.com](mailto:sales@cygnus-instruments.com)  
Web Site: [www.cygnus-instruments.com](http://www.cygnus-instruments.com)

### 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 Resolution	±0.1 mm 0.1 mm	OR	±0.05 mm 0.05 mm
Probes	Single crystal soft-faced compression remote or fixed head probe. 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	235 mm x 75 mm		
Weight	910 gms - remote probe 819 gms - fixed head		
Ambient 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, calibration trim tool, couplant, operation manual and carry case.



3 year warranty

