

# CYGNUS<sup>3</sup>

D A T A L O G G E R

## A P P L I C A T I O N S

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

Corrosion checks on ships' shell plates, bulkheads and structures.

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, process vessels and road tankers.

Quality assurance metal thickness checks.

Maintenance and safety checks on bridges and street lighting columns.

Pipeline wall thickness monitoring in-situ.

## MULTIPLE ECHO ULTRASONIC Digital Thickness Gauge With Datalogger.

**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



## Multiple Echo Ultrasonic Thickness Gauge

### FEATURES

#### Gauge:

- n Can be carried on the waist belt for ease of climbing
- n Highly water / dirt / dust resistant
- n Rugged construction - shock proof
- n Stable calibration - linear accuracy - no zero adjustment
- n Self verification of the measurements to ensure accuracy
- n Various probe options
- n Echo strength displayed to aid measurement
- n Dual display: Bright L.E.D & graphical L.C.D. displays
- n Probe protected by a membrane against wear and tear
- n Metric / Imperial switchable

#### Datalogger:

- n Versatile and easy to program, simple operation
- n Templates allow for Single Point, Grid Point, Key Point or Multi Point setup
- n Windows® Explorer style menu system
- n Measurements logged with one simple key press
- n Interfaces with PC
- n Dedicated Windows® compatible software on CD
- n Out of tolerance alarms
- n Storage for 200,000 measurements

abcdef

BS EN ISO9001: 2000

**CYGNUS**  
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ULTRASONIC NDT EQUIPMENT

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### SPECIFICATION

Materials	Sound velocities between 1000 and 9995 m/s
Range in steel	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      OR      ±0.05 mm 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	3 x Disposable AA alkaline batteries
Display	Backlit LCD graphical display and large clear L.E.D. display with polarised filter
Size	188 mm x 86 mm x 40 mm
Weight	369 gms
Ambient Temp.	0°C to +50°C

### KIT CONTENTS

Instrument, remote 2.25 MHz 13mm diameter probe, spare membranes, steel test block, couplant, leather case with strap, accessory pouch, dedicated Windows® software on CD, RS232 interface cable, operation manual and carry case.



3 year warranty

