



# CYGNUS 2 HANDS FREE

ULTRASONIC THICKNESS GAUGE



The Cygnum 2 Hands-Free uses the Multiple-Echo technique to reliably measure metal thickness through coatings. The gauge is small and lightweight, yet very rugged and extremely simple to operate with its intuitive menu.

IDEAL FOR  
USE IN



ROPE  
ACCESS



SHIP  
SURVEYS



COATED  
METALS

...and structural integrity inspection via rope access or climbing



## CYGNUS 2 HANDS-FREE KEY FEATURES



- **Multiple-Echo mode for accurate, through-coat measurements as specified by Classification Societies.**
- **Hands free operation: wrist, waist belt and harness mountable**
- Deep Coat function ignores coatings up to 20mm thick
- Simple, one-point calibration – no zeroing required
- End-mounted rotatable LCD display for convenient hands-free operation
- Intuitive easy to use menu
- Extremely rugged enclosure - shock and impact proof to US MIL STD 810G
- Environmental sealing (water and dust proof) to IP67 – US MIL STD 810G

### Cygnus-Pioneered Multiple Echo Technique

Uses three return echoes to give a truly accurate, error-checked metal thickness measurement - ignoring coatings up to 20mm (0.8"). Accepted by all major Classification Societies.

### Variety of Cygnus INOX Probes

Stainless steel SINGLE CRYSTAL probes – used in Multiple-Echo mode, these probes include replaceable membranes for long life, require no zeroing and have a high linear accuracy.

### Durable Cables

Using standard industry connectors our probe leads offer superior flexibility and resistance to oils and ultraviolet light. The cable will not stiffen after exposure to ultraviolet light.



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**SHOCK/  
IMPACT  
PROOF** TO US  
MIL STD 810G



**WATER &  
DUST  
TIGHT** IP67  
HOUSING



**END-  
MOUNTED  
ROTATABLE  
LCD DISPLAY**



**USE WITH  
SINGLE  
CRYSTAL  
PROBES**

## CYGNUS 2 HANDS-FREE SPECIFICATION

Feature	Description
<b>Materials</b>	Velocities from 1,000 - 9,000 m/s (0.0390 - 0.3543 in/us)
<b>Accuracy</b>	±0.05 mm (±0.002") - in Multiple-Echo measurement mode, when calibrated and measuring the same material as calibrated on.
<b>Resolution</b>	0.1 mm (0.005") or 0.05 mm (0.002")
<b>Probe Options</b>	Single crystal probes
<b>Measurement Range in Steel</b>	1 – 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature
<b>Connector</b>	1 x Lemo 1S
<b>Power</b>	3 x AA / R6 batteries
<b>Battery Life</b>	10 hours continuous measurement
<b>Electronics</b>	Dual channel pulser
<b>Display</b>	End-mounted rotatable LCD, 25.58 mm (W) x 6.38 mm (H)
<b>Size</b>	84mm x 130mm x 35mm (W x H x D) (3.3" x 5.1" x 1.4")
<b>Weight</b>	300g (10.5 oz.) (inc. batteries)
<b>Operating Temp.</b>	-10°C to 50°C (14°F - 122°F)
<b>Environmental Rating</b>	IP67 MIL STD 810G Method 501.6 (high temp +55°C (131°F)) MIL STD 810G Method 502.6 (low temp -20°C (-4°F)) MIL STD 810G Method 507.6 (humidity 95%) MIL STD 810G Method 512.6 (immersion 1 metre for 30 mins)
<b>Shock and Impact</b>	MIL STD 810G Method 514.7 (vibration) MIL STD 810G Method 516.7 (shock 20g) MIL STD 810G Method 516.7 (transit drop 1.22 m)
<b>Standards</b>	Designed for EN 15317
<b>Compliance</b>	CE, UKCA, RoHS
<b>Warranty</b>	3 years on gauge and 6 months on probe

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