



CYGNUS 4 GENERAL PURPOSE

ULTRASONIC THICKNESS GAUGE



The Cygnus 4 General Purpose thickness gauge uses the Multiple-Echo technique to accurately measure metal thickness without removing protective coatings. This compact gauge is light but tough and truly simple to use with its intuitive menu.

IDEAL FOR
USE IN



SHIPPING
SURVEYS



PLANT
MAINTENANCE



CIVIL
ENGINEERING

...plant maintenance, civil engineering, oil and gas, storage tanks, shipping and marine inspections.



CYGNUS 4 GENERAL PURPOSE KEY FEATURES

- **Multiple-Echo mode for accurate, through-coat measurements as specified by Classification Societies**
- **Deep Coat function ignores coatings up to 20mm thick**
- Min/Max measurement limit functions
- Visual and vibrate alert
- Simple, one-point calibration – no zeroing required
- Intuitive easy to use menu
- Large and bright front colour LCD display
- Extremely rugged enclosure - shock and impact proof to US MIL STD 810G
- Environmental sealing (water and dust proof) to IP67 – US MIL STD 810G



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**MIN/MAX
LIMIT AND
ALERT
FUNCTIONS**



**COMPATIBLE
WITH SINGLE
CRYSTAL
PROBES**



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



**WATER &
DUST
TIGHT IP67
HOUSING**

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.



CYGNUS 4 GENERAL PURPOSE SPECIFICATION

| Feature | Description |
|-----------------------------------|---|
| Materials | Velocities from 1,000 - 9,000 m/s (0.0390 - 0.3543 in/us) |
| Accuracy | ±0.05 mm (±0.002") - in Multiple-Echo measurement mode, when calibrated and measuring the same material as calibrated on. |
| Resolution | 0.1 mm (0.005") or 0.05 mm (0.002") |
| Probe Options | Single crystal probes |
| Measurement Range in Steel | 1 – 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature |
| Connector | 1 x Lemo 1S |
| Power | 3 x AA / R6 batteries |
| Battery Life | 10 hours continuous measurement |
| Electronics | Dual channel pulser |
| Display | 2.4" QVGA LCD, 47 mm (W) x 37 mm (H) |
| Size | 84mm x 130mm x 35mm (W x H x D) (3.3" x 5.1" x 1.4") |
| Weight | 300g (10.5 oz.) (inc. batteries) |
| Operating Temp. | -10°C to 50°C (14°F - 122°F) |
| Environmental Rating | 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) |
| Shock and Impact | 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) |
| Standards | Designed for EN 15317 |
| Compliance | CE, UKCA, RoHS |
| Warranty | 3 years on gauge and 6 months on probe |

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