



# CYGNUS 6+ PRO

## ULTRASONIC THICKNESS GAUGE



The Cygnus 6+ PRO thickness gauge boasts a full range of useful features for professional users, including A-scan, B-scan and comprehensive data logging. Used with Cygnus High Temperature probe, the Cygnus 6+ PRO can measure remaining wall thickness of high-temperature, in-service assets without shutdown or isolation.

IDEAL FOR  
USE IN



OIL AND  
GAS



HIGH  
TEMPERATURE



PROCESS  
PLANTS



SHIP  
SURVEYS



PIPES/  
TUBES

...plant maintenance, civil engineering, ship inspections, oil and gas facilities. High-temperature, in-service thickness surveys across refining, oil and gas, energy and process sectors.



## CYGNUS 6+ PRO KEY FEATURES

- Multiple-Echo mode for accurate, through-coat measurements as specified by Classification Societies
- Echo-Echo and Single-Echo modes for heavily corroded metals with a thin or no coating
- Temperature Compensation feature for measurement on hot materials
- Deep Coat function ignores coatings up to 20mm thick
- Manual and automatic gain control
- Min/max measurement limit functions with visual and vibrate alert
- Uses single and twin crystal probes
- Freeze function
- One and two point calibration
- Bluetooth for data transfer
- Large front LCD display and end-mounted rotatable LCD display with grayscale setting for bright sunlight
- Safe operation in explosive atmospheres: Class 1, Division 2, Group D locations only, as defined in NFPA 70, Article 500
- Water and dust tight IP67 housing
- Shock and impact proof to US MIL STD 810G



**ADVANCED DATA LOGGING WITH RADIAL POINTS**

**DUAL LCD DISPLAY - FRONT & END MOUNTED**

**ROLLING B-SCAN WITH AUTO START/STOP**

**LIVE A-SCAN FOR FURTHER VERIFICATION**

## COMPREHENSIVE DATA LOGGING

- Linear, 2D grid and template based logging
- 16 grid patterns available
- Add radial points to any measurement to further investigate immediately an area of interest or heavy corrosion
- Eight user-defined text comments to attach to any measurement point
- Auto-log feature
- Saves measurements and A-scans
- Records stored on an SD card
- CygLink software used to transfer and manage data

## Three Versatile Measuring Modes

Multiple-Echo mode uses three error checked back wall echoes to provide the most reliable and accurate remaining thickness measurements, with no need to remove coatings (up to 20mm/0.8 in thick).

Single-Echo mode is ideal for measuring uncoated metals with heavy front and/or back-wall corrosion. Also effective on a range of cast metals, plastics and composites.

Echo-Echo mode works best for measuring heavily corroded metals through thin coatings of up to 1mm/0.04in thick, ideal for measuring painted metals with heavy back wall corrosion.

## Cygnus High Temp Probe TSB-MAUH (Twin Crystal)

For use on hot surfaces up to 300°C. Measures remaining wall thickness from 1.5mm to 250mm - depending on temperature and material. **No cooling period required** - reducing inspection time and facilitating more effective measurement.

Option to use a standard cable or a more robust, braided cable.



Standard Cable

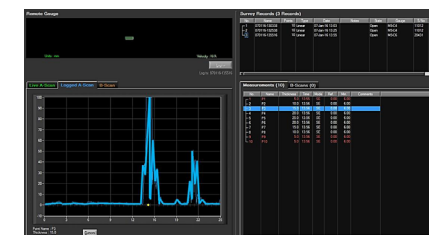
Braided Cable

## Measurement Stability Indicator (MSI)

Exclusive to Cygnus, MSI ensures stable and therefore reliable measurements are displayed in Echo-Echo and Single-Echo modes.

## Cymlink Computer Software

Cymlink is a Windows® based application for computer use to display continuous A-Scan output and measurement data. Cymlink has the facility to log both data formats into a Survey file for report presentation, which can be emailed, exported as a PDF, or printed.



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## CYGNUS 6+ PRO SPECIFICATION

Feature	Description
<b>Measuring Modes</b>	Multiple-Echo using 3 echoes to ignore coatings up to 20mm thick. Echo-Echo using 2 echoes to ignore coatings up to 1mm thick. Single-Echo using 1 echo
<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. ±0.1 mm (±0.004") or 0.1% of thickness measurement whichever is the greatest - in Single-Echo & Echo-Echo measurement modes, when calibrated and measuring the same material as calibrated on.
<b>Resolution</b>	Multiple-Echo mode - 0.1 mm (0.005") or 0.05 mm (0.002") Single-Echo and Echo-Echo modes - 0.1 mm (0.005") or 0.01 mm (0.001")
<b>Probe Options</b>	Single Crystal probes, Twin Crystal probes and High Temp probe
<b>Measurement Range in Steel</b>	0.8 – 250mm (0.031 in. – 10 in.) depending on selected probe and configuration, material and temperature
<b>Connector</b>	2 x Lemo 00
<b>Power</b>	3 x AA / R6 batteries
<b>Battery Life</b>	Approx. 10 hours continuous measurement
<b>Electronics</b>	Dual channel pulser
<b>Display</b>	Front LCD 2.4" QVGA 47 mm (W) x 37 mm (H); End-mounted LCD 25.58mm (W) x 6.38 (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>Data Logging</b>	5000 measurements and A-scans per record. Max number records: 100 (soft limit)
<b>Computer Software</b>	CygLink allows remote logging and viewing of A-scan graphs Survey and report generation to PDF file Graphic analysis of data and statistical calculations
<b>Environmental Rating</b>	IP67 Safe operation in Explosive Atmospheres: Class I, Division 2, Group D Locations only, as defined in the National Fire Protection Association Code (NFPA 70), Article 500. Tested using MIL-STD-810G, Method 511.5, Procedure I 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 probes

\*except high temperature measurements

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All information provided is subject to change without prior notice.



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