



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











OIL AND

HIGH
TEMPERATUR

PROCES:

SHIP

PIPES/

...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

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- 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



DUAL LCD ROLLING FRONT & FND AUTO START/ VERIFICATION



B-SCAN WITH FOR FURTHER

COMPREHENSIVE DATA LOGGING

- Linear, 2D grid and template
- 16 grid patterns available
- Add radial points to any
- Eight user-defined text
- Auto-log feature

- 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.

Cyanus High Temp Probe T5B-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

Cyglink Computer Software

CygLink is a Windows® based application for computer use to display continuous A-Scan output and measurement data. CygLink 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.



POINTS

DISPLAY -MOUNTED

STOP

CYGNUS 6+ PRO SPECIFICATION

Feature Description Measuring Modes Multiple-Echo using 3 echoes to ignore coatings up to 20mm thick. Echo-Echo using 1 echo 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. ±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. Resolution Multiple-Echo and Echo-Echo measurement modes, when calibrated and measuring the same material as calibrated on. Resolution Multiple-Echo and echo-Echo modes - 0.1 mm (0.002") single-Echo and Echo-Echo modes - 0.1 mm (0.002") single-Echo and Echo-Echo modes - 0.1 mm (0.005") or 0.01 mm (0.001") Probe Options Single Crystal probes, Twin Crystal probes and High Temp probe Measurement Range in Steel and temperature 0.8 – 250mm (0.031 in. – 10 in.) depending on selected probe and configuration, material and temperature Connector 2 x Lemo 00 Power 3 x AA / R6 batteries Battery Life Approx. 10 hours continuous measurement Electronics Dual channel pulser Display Front LCD 2.4" QVGA 47 mm (W) x 37 mm (H); End-mounted LCD 25.58mm (W) x 6.38 (H) Size 84mm x 130mm x 35mm (W x H x D) (3.3" x	CYGNUS 6+ PRO SPECIFICATION	
Measuring Modes Echo-Echo using 2 echoes to ignore coatings up to 1mm thick. Single-Echo using 1 echo Materials Velocities from 1,000 - 9,000 m/s (0,0390 - 0.3543 in/us) # 2,005 mm (±0,002") - in Multiple-Echo measurement mode, when calibrated and measuring the same material as calibrated on. * 2,007 mm (±0,002") - in Multiple-Echo measurement whichever is the greatest - in Single-Echo & Echo-Echo measurement modes, when calibrated and measuring the same material as calibrated on. * 4,007 mm (±0,002") 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") Probe Options Single Crystal probes, Twin Crystal probes and High Temp probe Measurement and temperature 0.8 - 250mm (0,031 in 10 in.) depending on selected probe and configuration, material and temperature Connector 2 x Lemo 00 Power 3 x AA / R6 batteries Battery Life Approx. 10 hours continuous measurement Electronics Dual channel pulser Display Front LCD 2.4" QVGA 47 mm (W) x 37 mm (H); End-mounted LCD 25.58mm (W) x 6.38 (H) Size 84mm x 130mm x 35mm (W x H x D) (3.3" x 5.1" x 1.4") Weight 300g (10.5 cz) (inc. batteries) Operating Temp. -10°C (14°F - 122°F) Data Logging	Feature	Description
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Dual channel pulser	Power	3 x AA / R6 batteries
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Compliance CE, UKCA, RoHS		MIL STD 810G Method 516.7 (shock 20g)
	Standards	Designed for EN 15317
Warranty 3 years on gauge and 6 months on probes	Compliance	CE, UKCA, RoHS
	Warranty	3 years on gauge and 6 months on probes



Cygnus Headquarters

Call +44 (0) 1305 265 533 Email sales@cygnus-instruments.com

*except high temperature measurements

Cygnus UAE

Call +971 50 3459305 Email ribu@cygnus-instruments.com /isit cygnus-instruments.com Cygnus USA

All information provided is subject to change without prior notice.

Call +13462230415

Email sales@cygnus-instruments.com Visit us.cygnus-instruments.com

ISS2 04/22

Cygnus Singapore

Call +65 6252 5909 Email sales@cygnus-instruments.s Visit cygnus-instruments.com/sg/

Cygnus Instruments Ltd Cygnus House 30 Prince of Wales Road Dorseter Dorset DTI 1PW United Kingdom

