



CYGNUS 4+ GENERAL PURPOSE

ULTRASONIC THICKNESS GAUGE



The Cygnus 4+ General Purpose thickness gauge is a light, tough multi-mode thickness gauge. It features a sunlight readable display with Live A-scan, intuitive menu and sequential data logging for easy reporting and analysis. Used with Cygnus High Temperature Probe, the Cygnus 4+ can measure remaining wall thickness of high-temperature, in-service assets without shutdown or isolation













...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 4+ **GENERAL PURPOSE 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
- Deep Coat function ignores coatings up to 20mm thick
- Manual and automatic gain control
- Min/max measurement limit functions with visual and vibrate alert
- Large front sunlight readable LCD display with Live A-scan
- Water and dust tight IP67 housing
- Shock and impact proof to US MIL STD 810G
- Safe operation in explosive atmospheres: Class 1, Division 2, Group D locations only, as defined in NFPA 70. Article 500
- One and two point calibration







MIN/MAX **LIMIT AND** ALERT **FUNCTIONS**

LIVE A-SCAN FOR FURTHER **VERIFICATION**

DATA LOGGING WITH AUTO-LOG

USE WITH SINGLE & TWIN CRYSTAL PROBES

BASIC DATA LOGGING

- 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 used to transfer and manage data logger records. A-scans, measurement comments and material velocity tables. The program can generate PDF reports and export to Excel. It also displays A-scans, allowing for after-the-event analysis of logged measurements.



PRODUCT

CYGNUS 4+ GENERAL PURPOSE SPECIFICATION

Feature Description Measuring Modes Multiple-Echo using 3 echoes to ignore coatings up to 1mm thick 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) 4:0.05 mm (9,0002") - in Multiple-Echo measurement mode, when calibrated and measuring the same material as calibrated on. ±0.1 mm (2,004") 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 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 configuration, material 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 batteries Battery Life Approx. 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) <t< th=""><th colspan="2">CYGNUS 4+ GENERAL PURPOSE SPECIFICATION</th></t<>	CYGNUS 4+ GENERAL PURPOSE SPECIFICATION	
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3 10 10 10 10 10 10 10 10 10 10 10 10 10	Shock and Impact	MIL STD 810G Method 516.7 (shock 20g - 11ms half sine shock pulse, 40g 11ms in each axis)
Compliance CE, UKCA, RoHS	Standards	Designed for EN 15317
	Compliance	CE, UKCA, RoHS
Warranty 3 years on gauge and 6 months on probe	Warranty	3 years on gauge and 6 months on probe



*except high temperature measurements

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