RELIABLE ULTRASONIC MEASUREMENT



CYGNUS





CYGNUS SURFACE RANGE

ULTRASONIC THICKNESS GAUGES













STORAGE CIVIL SHIP TANKS ENGINEERING SURVEYS







THE CYGNUS SURFACE RANGE

Cygnus Surface Range consists of a base model for simple, accurate measurement through coatings; and three PLUS models with advanced features and additional measuring modes for extreme corrosion and extensive applications.

The Cygnus 1 Ex Ultrasonic Thickness Gauge is an intrinsically safe instrument designed for taking reliable thickness measurements in Zone 0 Explosive Atmospheres.





ACCURACY

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.

Cygnus' Measurement Stability Indicator (MSI) helps verify stable and reliable measurements in Single-Echo and Echo-Echo modes.



With intuitive menus on a large front or bright end display, Cygnus gauges are easy to navigate and can be worn on wrist, neck, or belt - enabling efficient, hands-free operations. Auto-Log and min/max Limit & Alert features further enhance the convenience.

HIGHLY DURABLE

Rated to IP67 and the stringent US Military Standards 810G, the surface range is dust-tight, water-resistant and offers maximum impact protection against accidental drops and knocks. Supplied with a 3-year warranty.



Three measuring modes to suit levels of corrosion, various materials and applications.

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.

VARIETY OF PROBES

For different material thickness and various materials - coated or uncoated.



Single Crystal probes Twin Crystal probes

CYGNUS HIGH TEMPERATURE EX PROBE

ATEX-certified high temperature probe measuring hot surfaces up to 300°C (570°F) continuous. **No cooling period required** - reducing inspection time and facilitating more effective measurement.

DATA LOGGING FACILITIES

To assist with recording, reporting and further analysis on a computer using CygLink (Windows-based software).



A-SCAN & B-SCAN

To allow users to verify measurements visually in a real-time graphical display.





A-Scan

B-Scan

















PRODUCT

UK

- Certified to ATEX, IECEx, UKEX for use in all hazardous gas Zones (0, 1, 2), coal mines and combustible dust Zones (21, 22)
- Intrinsic Safety protection No need for hot work permits
- · High temperature measurement capability
- 3 measuring modes for levels of corrosion, various materials and through-coat measurements
- Deep Coat function ignores thick coatings
- Manual Measurement Mode allows gates and gain to be configured to suit your application
- Live A-Scans aid visual measurement verification
- Live B-scans give a quick, cross-sectional representation
- · 4 function keys for easy controls and dynamic views
- User Access feature protects specific access level records
- Measurement setup can be saved/restored for quick start
- Measurement Freeze function and Ref/Min/Max thickness
- limits
- Available as SC, TC, PLUS and PRO variants with options of upgradeable features

APPLICATIONS

Fuel depots, road and vessel tankers, mines, chemical plants, oil and gas, refineries, pipelines and hazardous storage tanks.









LARGE 3.5" OUTDOOR READABLE DISPLAY

SOFTWARE

B-SCAN WITH AUTO START/ FOR FURTHER PAUSE/CONTINUE VERIFICATION





SPECIFICATION

Measuring Mode	Single Echo with Twin Crystal Probes Echo-Echo with Twin Crystal Probes Multiple Echo with Singly Crystal Probes
Materials	Sound velocity from 1000 m/s to 9000 m/s [0.0390 in/us to 0.3543 in/us]
Accuracy	± 0.1 mm (± 0.004 ") or 0.1% of thickness measurement whichever is the greatest
Resolution	0.1mm, 0.05mm or 0.01mm depending on probe type
Probe Options	Single crystal, twin crystal and high temperature probes
Measurement Range in Steel	0.8mm to 250mm (0.031 in. – 10 in.) depending on selected probe and configuration, material and temperature
Connector	Single Dual Coaxial Connector
Power Supply	Rechargeable, removable Lithium-Ion battery pack
Power Rating	2W
Probe Sockets	Single Dual Coaxial Connector
Battery Life	6-8 hours continuous measurement
Display	3.5" VGA, sunlight readable colour display
Size	270mm tall, 135mm wide, 80mm deep
Weight	1 kg with battery
Operating Temp.	-0°C to +50°C (32°F to 122°F)
Storage Temp.	-10°C to +65°C (50°F to 149°F)
Data Logging	10,000 measurements and A-scans per record
Computer Software	CygLink allows remote logging and viewing of A-scan graphs. Survey and report generation to PDF file. Graphic analysis of data and statistical calculations. Bluetooth connection to transfer data to a Windows® computer with CygLink
Certification	ATEX, IECEx and UKEX I M1 Ex ia Ma II 1G Ex ia IIC T4 Ga II 2D Ex ib IIIB T100C Db Tamb = 0°C to +50°C Certificate Numbers; ATEX: ExVeritas 21ATEX0860X UKEX: ExVeritas 21UKEX0861X IECEx: IECEx EXV 21.0035X
Environmental Protection	IP67 Pollution degree 3
Standards	Designed for BS EN 15317:2000
Warranty	3 years on gauge and 6 months on probe



of any level of corrosion and pitting.

CYGNUS 2+ HANDS-FREE 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
- Hands free operation: wrist, waist belt and harness mountable
- End-Mounted display shows thickness measurements ideal for rope access or climbing work
- Front display enables easy gauge setup
- Deep Coat function ignores coatings up to 20mm thick
- MSI (Measurement Stability Indicator) verifies stable, reliable readings
- Intuitive easy to use menu
- Can be upgraded to 4+ or 6+ at an additional cost

APPLICATIONS

Ideal for ship surveys and hull UTM inspections, structural integrity inspection via rope access or climbing, heavily corroded metals with front/back wall pitting, irregular geometric shapes, attenuative materials, plastics, e.g. pipes and dredge pipes





TO US MIL STD

810G



WATER & DUST **TIGHT IP67** HOUSING



MOUNTED ROTATABLE DISPLAY

END-

USE WITH SINGLE & TWIN CRYSTAL PROBES





SPECIFICATION

Feature	Description
Measuring Modes	Multiple-Echo using 3 echoes to ignore coatings up to 20 mm 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)
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 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 and Twin crystal probes
Measurement Range in Steel	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	End-mounted rotatable LCD, 25.58 mm (W) x 6.38 mm (H) - for measurements 2.4" QVGA LCD, 47 mm (W) x 37 mm (H) - for gauge setup only
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 1.22m)
Standards	Designed for EN 15317
Compliance	CE, UKCA, RoHS
Warranty	3 years on gauge and 6 months on probe

Visit cygnus-instruments.com to explore our full product range

Call our team today on +44 (0) 1305 265 533 for expert product advice







PRODUCT















CRYSTAL PROBES

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

WATER & DUST **TIGHT IP67** HOUSING





- 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
- Can be upgraded to 4+ or 6+ at an additional cost

APPLICATIONS

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









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	2 x Lemo 00
Power	3 x AA / R6 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)
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

Visit cygnus-instruments.com to explore our full product range

Call our team today on +44 (0) 1305 265 533 for expert product advice



The Cygnus 4+ General Purpose thickness gauge is a light, tough multimode thickness gauge. It features a sunlight readable LCD display with Live A-scan, intuitive menu and sequential data logging for easy reporting & analysis (CSV or PDF format).

CYGNUS 4+ GENERAL PURPOSE KEY FEATURES





GO TO PRODUCT PAGE

- 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
- High temperature measurement capability with Cygnus high temperature probe
- 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 Live A-scan display
- 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, Art. 500
- One and two point calibration
- Can be upgraded to 6+ at an additional cost

APPLICATIONS

Ideal for plant maintenance, civil engineering, marine structures, ship surveys, oil and gas facilities, offshore platforms and windfarms, rail infrastructure, metals protected by thick/special coatings









MIN/MAX LIMIT AND ALERT FUNCTIONS

LIVE A-SCAN FOR FURTHER VERIFICATION

DATA LOGGING WITH AUTO-LOG

USE WITH SINGLE & TWIN CRYSTAL PROBES



SPECIFICATION

Feature	Description
Measuring Modes	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
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 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 Range in Steel	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)
Data Logging	5000 measurements and A-scans per record. Max number records: 100
Computer Software	CygLink allows remote logging and viewing of A-scan graphs Survey and report generation to PDF file Graphic analysis of data and statistical calculations
Environmental Rating	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)
Shock and Impact	MIL STD 810G Method 514.7 (vibration - 1 hour each axis) MIL STD 810G Method 516.7 (shock 20g - 11ms half sine shock pulse, 40g 11ms in each axis) MIL STD 810G Method 516.7 (26 drops - transit drop 1.22 m)
Standards	Designed for EN 15317
Compliance	CE, UKCA, RoHS
Warranty	3 years on gauge and 6 months on probe

CYGNUS 6+ PRO



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
- High temperature measurement capability with Cygnus high temperature probe
- 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 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
- Shock and impact proof to US MIL STD 810G

APPLICATIONS

Ideal for plant maintenance, civil engineering, marine structures, ship inspections, oil and gas facilities, offshore platforms and windfarms, rail infrastructure, metals protected by thick/special coatings









ADVANCED DATA LOGGING WITH RADIAL FRONT & END AUTO START/ VERIFICATION POINTS

DUAL LCD DISPLAY -MOUNTED

ROLLING STOP

LIVE A-SCAN **B-SCAN** WITH FOR FURTHER



SPECIFICATION

Measuring Modes 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 Materials Velocities from 1,000 - 9,000 m/s (0.0390 - 0.3543 in/us) ±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 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 Range in Steel 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 oz.) (inc. batteries) Operating Temp. -10°C to 50°C (14°F - 12°F) Data Logging 5000	Feature	Description
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Weight 300g (10.5 oz.) (inc. batteries) Operating Temp10°C to 50°C (14°F - 122°F) Data Logging 5000 measurements and A-scans per record. Max number records: 100 (soft limit) Computer Software CygLink allows remote logging and viewing of A-scan graphs Survey and report generation to PDF file Graphic analysis of data and statistical calculations 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))	Display	Front LCD 2.4" QVGA 47 mm (W) x 37 mm (H); End-mounted LCD 25.58mm (W) x 6.38 (H)
Operating Temp. -10°C to 50°C (14°F - 122°F) Data Logging 5000 measurements and A-scans per record. Max number records: 100 (soft limit) Computer Software CygLink allows remote logging and viewing of A-scan graphs Survey and report generation to PDF file Graphic analysis of data and statistical calculations 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))	Size	84mm x 130mm x 35mm (W x H x D) (3.3" x 5.1" x 1.4")
Data Logging 5000 measurements and A-scans per record. Max number records: 100 (soft limit) Computer Software CygLink allows remote logging and viewing of A-scan graphs Survey and report generation to PDF file Graphic analysis of data and statistical calculations 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. Environmental Rating MIL STD 810G Method 501.6 (high temp +55°C (131°F))	Weight	300g (10.5 oz.) (inc. batteries)
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Survey and report generation to PDF file Graphic analysis of data and statistical calculations 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. Environmental Rating MIL STD 810G Method 501.6 (high temp +55°C (131°F))	Data Logging	5000 measurements and A-scans per record. Max number records: 100 (soft limit)
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. Environmental Rating MIL STD 810G Method 501.6 (high temp +55°C (131°F))		Survey and report generation to PDF file
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)		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%)
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)		MIL STD 810G Method 516.7 (shock 20g)
Standards Designed for EN 15317	Standards	Designed for EN 15317
Compliance CE, UKCA, RoHS	Compliance	CE, UKCA, RoHS
Warranty 3 years on gauge and 6 months on probes	Warranty	3 years on gauge and 6 months on probes



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