RELIABLE ULTRASONIC MEASUREMENT







CYGNUS SURFACE RANGE

ULTRASONIC THICKNESS GAUGES













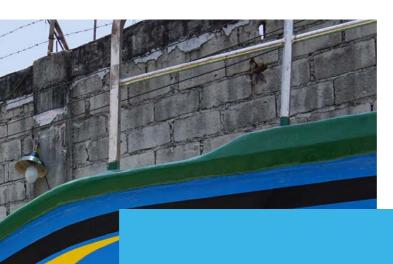


STORAGE CIVIL SHIP TANKS ENGINEERING SURVEYS



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







SURFACE RANGI

CYGNUS INSTRUMENTS WHO WE ARE

Trusted by engineers and inspectors worldwide since 1983, Cygnus manufactures truly reliable ultrasonic measurement equipment to suit a broad spectrum of user needs across various industries.

Always taking an application-driven approach, Cygnus has designed its range of surface gauges for ease-of-use, accuracy and with practical functionalities.

Cygnus gauges are renowned for their durability. As such, Cygnus service centres are strategically placed across the globe to provide professional and efficient service throughout the 3-year warranty period and beyond.

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.

SIMPLE TO USE

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.



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.











VERSATILE

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

Coming soon! 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

CYGNUS 1 EX KEY FEATURES



PRODUCT

- Certified Intrinsically Safe to ATEX, IECEx, UKEX for Zone 0
- Coming soon High temperature measurement capability
- Intrinsic Safety protection No need for hot work permits
- 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

CYGLINK SOFTWARE **B-SCAN WITH AUTO START/**

LIVE A-SCAN FOR FURTHER PAUSE/CONTINUE VERIFICATION







Measuring Mode Single Echo with Twin Crystal Probes Echo-Echo with Twin Crystal Probes Multiple Echo with Singly Crystal Probes Multiple Echo with Singly 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 ±01 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 Measurement Range in Steel Connector Single Dual Coaxial Connector Power Surply 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 Temp10°C to +55°C (32°F to 122°F) Storage Temp10°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. Craphic analysis of data and statistical calculations. Bluetooth connection to transfer data to a Windows® computer with CygLink ATEX, IECEX and UKEX 1 M1 Ex ia Ma (Tamb = 0°C to +55°C) Lertificate Numbers; ATEX Exveritas 21ATEXOBGOX UKEY. Exveritas 21UKEXOBGIX IECEX: IECEX EXV 21.0035X Environmental Protection Pollution degree 3 Standards Designed for BS EN 15317-2000 Warranty 3 years on gauge and 6 months on probe	Feature	Description
Accuracy #01 mm (±0.004") or 0.1% of thickness measurement whichever is the greatest Resolution #01mm, 0.05mm or 0.01mm depending on probe type Probe Options #02 Single crystal, twin crystal and high temperature probes #03 Measurement Range in Steel #04 Single Dual Coaxial Connector #05 Single Dual Coaxial Connector #06 Probe Sockets #06 Single Dual Coaxial Connector #07 Probe Sockets #07 Single Dual Coaxial Connector #08 Probe Sockets #08 Single Dual Coaxial Connector #08 Battery Life #08 6-8 hours continuous measurement #08 Jisplay #09 Jisplay #00 Ji	Measuring Mode	Single Echo with Twin Crystal Probes Echo-Echo with Twin Crystal Probes
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 Temp0°C to +50°C (32°F to 122°F) Storage Temp10°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 ATEX, IECEx and UKEX I MI Ex ia Ma [Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga [Tamb = 0°C to +50°C) Certificate Numbers; ATEX Exveritas 21ATEX0860X UKEX: Exveritas 21ATEX0860X UKEX: Exveritas 21ATEX0860X UKEX: EXVERITES ZIATEX0860X UKEX: EXVERITES ZIATEX0860X UKEX: ECEX: IECEX EXV 21.0035X Environmental Prof Pollution degree 3 Standards Designed for BS EN 15317-2000	Materials	Sound velocity from 1000 m/s to 9000 m/s [0.0390 in/us to 0.3543 in/us]
Probe Options Single crystal, twin crystal and high temperature probes Measurement Range in Steel O.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 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 ATEX, IECEx and UKEX I. MI Ex ia Ma (Tamb = 0°C to +50°C) Il 1G Ex ia IIC 14 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEX/0860X UKEX: EXVERIES 2	Accuracy	±0.1 mm (±0.004") or 0.1% of thickness measurement whichever is the greatest
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 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 ATEX, IECEx and UKEX In MI Ex ia Ma (Tamb = 0°C to +50°C) (Timb = 0°C to +50°C) Certification Certificate Numbers; ATEX ExVeritas 21ATEX0860X UKEX: EXVERIES 21UKEX0861X IECEx IECEX EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000	Resolution	0.1mm, 0.05mm or 0.01mm depending on probe type
Range in Steel 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 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 ATEX, IECEx and UKEX I I MI Ex ia Ma (Tamb = 0°C to +50°C) I I GE xi all IC T4 Ga (Tamb = 0°C to +50°C) Certification Certificate Numbers; ATEX: ExVeritas 21UKEXO860X UKEX: ExVeritas 21UKEXO86IX IECEx: IECEX EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000	Probe Options	Single crystal, twin crystal and high temperature probes
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 Temp0°C to +50°C (32°F to 122°F) Storage Temp10°C to +65°C (50°F to 149°F) Data Logging 10,000 measurements and A-scans per record 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 ATEX, IECEx and UKEX I MI Ex ia Ma (Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEXO860X UKEX: ExVeritas 21VKEXO86IX IECEx: IECEx EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000		
Power Rating 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 Temp0°C to +50°C (32°F to 122°F) Storage Temp10°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 ATEX, IECEx and UKEX I MI Ex ia Ma (Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEX0860X UKEX: ExVeritas 21UKEX0861X IECEx: IECEx EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000	Connector	Single Dual Coaxial Connector
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 Temp0°C to +50°C (32°F to 122°F) Storage Temp. 1-0°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 ATEX, IECEX and UKEX I M1 EX ia Ma (Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certification Certification Certification IPG7 Pollution degree 3 Standards Designed for BS EN 15317:2000	Power Supply	Rechargeable, removable Lithium-Ion battery pack
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 Temp0°C to +50°C (32°F to 122°F) Storage Temp10°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 ATEX, IECEX and UKEX I MI EX ia Ma (Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certification Certificate Numbers; ATEX: EXVeritas 21ATEX/0860X UKEX: EXVeritas 21UKEX/0861X IECEX: IECEX: EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000	Power Rating	2W
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 ATEX, IECEx and UKEX I MI Ex ia Ma (Tamb = 0°C to +50°C) II 10 Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certification 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	Probe Sockets	Single Dual Coaxial Connector
Size 270mm tall, 135mm wide, 80mm deep Weight 1 kg with battery Operating Temp0°C to +50°C (32°F to 122°F) Storage Temp10°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 ATEX, IECEx and UKEX	Battery Life	6-8 hours continuous measurement
Weight Operating Temp. O°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 ATEX, IECEX and UKEX I MI Ex ia Ma (Tamb = 0°C to +50°C) Il 1 G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEX0860X UKEX: ExVeritas 21UKEX0861X IECEx: IECEX EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000	Display	3.5" VGA, sunlight readable colour display
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 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 ATEX, IECEX and UKEX I M1 Ex ia Ma (Tamb = 0°C to +50°C) Il 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEXD860X UKEX: ExVeritas 21UKEX0861X IECEx: IECEX EXV 21.0035X Environmental Protection Perotection Designed for BS EN 15317:2000	Size	270mm tall, 135mm wide, 80mm deep
Storage Temp. -10°C to +65°C (50°F to 149°F) Data Logging 10,000 measurements and A-scans per record 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 ATEX, IECEX and UKEX I M1 Ex ia Ma (Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEX0860X UKEX: ExVeritas 21UKEX0861X IECEx: IECEX EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000	Weight	1 kg with battery
Data Logging 10,000 measurements and A-scans per record 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 ATEX, IECEx and UKEX I M1 Ex ia Ma (Tamb = 0°C to +50°C) Il 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEX0860X UKEX: ExVeritas 21UKEX0861X IECEx: IECEx EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000	Operating Temp.	-0°C to +50°C (32°F to 122°F)
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 ATEX, IECEX and UKEX I MI Ex ia Ma (Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 2IATEX0860X UKEX: ExVeritas 2IUKEX086IX IECEX: IECEX EXV 21.0035X Environmental Protection Pollution degree 3 Standards Designed for BS EN 15317:2000	Storage Temp.	-10°C to +65°C (50°F to 149°F)
generation to PDF file. Graphic analysis of data and statistical calculations. Bluetooth connection to transfer data to a Windows® computer with CygLink ATEX, IECEx and UKEX I MI Exia Ma (Tamb = 0°C to +50°C) II 1G Exia IIIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEX0860X UKEX: ExVeritas 21UKEX0861X IECEx: IECEx EXV 21.0035X Environmental Protection Designed for BS EN 15317:2000	Data Logging	10,000 measurements and A-scans per record
Certification Certification Certification Certification Certificate Numbers; ATEX: EXVeritas 21ATEX0860X UKEX: EXVeritas 21UKEX0861X IECEX: IECEX EXV 21.0035X Environmental Protection Pollution degree 3 Standards Designed for BS EN 15317:2000		generation to PDF file. Graphic analysis of data and statistical calculations.
Protection Pollution degree 3 Standards Designed for BS EN 15317:2000	Certification	I M1 Ex ia Ma (Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEX0860X UKEX: ExVeritas 21UKEX0861X
		11 07
Warranty 3 years on gauge and 6 months on probe	Standards	Designed for BS EN 15317:2000
	Warranty	3 years on gauge and 6 months on probe

The Cygnus 2+ is specifically designed for hands-free use by displaying measurements via an end-mounted screen. With three measuring modes, it measures the wall thickness of a variety of materials (including plastics) and metals of any level of corrosion and pitting.

CYGNUS 2+ HANDS-FREE KEY FEATURES



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PRODUCT
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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
- 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



SHOCK/ IMPACT PROOF TO US MIL STD 810G



WATER & DUST
TIGHT IP67
HOUSING



END-MOUNTED ROTATABLE DISPLAY



USE WITH
SINGLE & TWIN
CRYSTAL
PROBES







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

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.

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
- 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



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COMPATIBLE WITH SINGLE CRYSTAL PROBES



SHOCK/ IMPACT PROOF TO US MIL STD 810G



WATER & DUST
TIGHT IP67
HOUSING







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



CYGNUS 4+ GENERAL PURPOSE KEY FEATURES



GO TO **PRODUCT**

- 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



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





GO TO PRODUCT

- 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 & FND POINTS



DUAL LCD DISPLAY -MOUNTED



ROLLING B-SCAN WITH AUTO START/ STOP



LIVE A-SCAN FOR FURTHER **VERIFICATION**



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 – 250 mm (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 - 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
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) 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 probes



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