











INTRINSICALLY SAFE

ULTRASONIC THICKNESS GAUGE



The Cygnus 1 Ex Ultrasonic Thickness Gauge is a rugged, handheld, intrinsically safe instrument designed for taking reliable thickness measurements in Zone 0 Explosive Atmospheres. It features a large colour LCD display and 3 measuring modes for through-coat measurements and various materials - including heavily corroded metals. Although designed for ease of use, the gauge boasts advanced datalogging and manual measurement mode.











ROAD & VESSEL MINES

...refineries, pipelines and hazardous storage tanks.





CYGNUS 1 EX KEY FEATURES



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- Certified Intrinsically Safe to ATEX, IECEx, UKEX for Zone 0 and NRTL for Class 1, Division 1
- 3 measuring modes for levels of corrosion, various materials and through-coat measurements
- 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
- Deep Coat function ignores thick coatings
- User Access feature protects records with correct user access levels
- Measurement setup can be saved and restored for a auick start
- Measurement Freeze function and Ref/Min/Max thickness limits
- A solid-state electronic instrument with a rugged IP67 rated enclosure
- Available as SC, TC, PLUS and PRO variants with options of upgradeable features









LARGE 3.5" OUTDOOR READABLE DISPLAY

CYGLINK SOFTWARE

B-SCAN WITH

LIVE A-SCAN **AUTO START/** FOR FURTHER PAUSE/CONTINUE VERIFICATION

CERTIFIED INTRINSICALLY SAFE TO:

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: ATFX: FxVeritas 21ATFX0860X UKEX: ExVeritas 21UKEX0861X IECEx: IECEx EXV 21.0035X

NRTL



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I.S. Class I Zone O AEx ia IIC Ga T4 I.S. Class I Division 1 Groups ABCD T4 $(Tamb = 0^{\circ}C \text{ to } +50^{\circ}C)$

NRTL/MET US Certification, Listing Number F115506



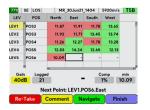


Three Selectable Measuring Modes

SELECTABLE OPTIONS

Comprehensive Data Logging

· Datalogging: Basic (Linear lists) or Advanced (2D/3D Grids, Templates)



- Allows a maximum of 10,000 measurement points per record
- 16 grid patterns available
- Add radial points to any measurement (linear/grid) to further investigate immediately an area of interest or heavy corrosion
- 8 User-defined text comments to attach to any measurement point
- · Auto-log feature
- Saves measurements and A-scans as records on internal memory



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.

CYGNUS 1 EX SPECIFICATION

CYGNUS 1 EX SPECIFICATION		
Feature	Description	
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 and twin crystal 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 (Tamb = 0°C to +50°C) II 1G Ex ia IIC T4 Ga (Tamb = 0°C to +50°C) Certificate Numbers; ATEX: ExVeritas 21ATEX0860X	NRTL I.S. Class I Zone O AEx ia IIC Ga T4 I.S. Class I Division 1 Groups ABCD T4 (Tamb = 0°C to +50°C) NRTL / MET US Certification, Listing Number E115506
Environmental	UKEX: ExVeritas 21UKEX0861X IECEx: IECEx EXV 21.0035X IP67	
Protection	Pollution degree 3	
Standards	Designed for BS EN 15317:2000	
Warranty	3 years on gauge and 6 months on probe	



ISSI 08/22 All information provided is subject to change without prior notice.

