









HULL UTM INSPECTION CIVIL

MARINE STRUCTURES OFFSHORE PLATFORMS

...underwater structures, e.g. bridges, tanks, canal locks, subsea pipelines and equipment, UWILD or IWS class surveys.

IDEAL FOR







CYGNUS UNDERWATER KEY FEATURES



- 3 measuring modes for levels of corrosion, various materials and through-coat measurements
- Depth sensor live depth display providing the diver with an accurate depth indicator
- Live A-Scans aid visual measurement verification
- Extremely Simple-to-Use with 3 function keys and up to 4 screens
- Comprehensive data-logging: linear and grid
- Deep Coat function ignores thick coatings
- RTC (Real Time Clock) for tagging date/time on measurement points
- Auto-set Gain to optimise the probe's gain settings for optimal performance
- Multiple Echo Mode to verify accurate through-coat measurements as specified by Class Societies
- Measurement Stability Indicator (MSI) verifies stable and therefore reliable measurements
- Available in STANDARD, PLUS and PRO variants, with the option to upgrade to the PLUS or PRO variant at a later date









LARGE CYGLINK **COLOUR LCD** SOFTWARE **DISPLAY**

DEPTH SCREEN VIEW

LIVE A-SCAN FOR FURTHER **VERIFICATION**

Three Selectable Measuring Modes

SELECTABLE OPTIONS

Comprehensive Data Logging

Record types: Linear and Grid 2D



- Log measurements by pressing the middle key or using Auto-Log feature
- Allows a maximum of 5.000 measurement points per record
- 16 grid patterns available
- Saves measurements with A-scans and depth as records on internal memory



Topside Repeating via CygLink

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 UNDERWATER SPECIFICATION

Measuring Mode Multiple Echo with Single Crystal Probes Single Echo with Twin Crystal Probes Echo-Echo with Twin Crystal Probes Materials Sound velocity from 2000 m/s to 9000 m/s [0.0787 in/us to 0.3543 in/us] Accuracy ±0.1 mm (±0.004") or 01% of thickness measurement whichever is the greatest Resolution O.1mm, 0.05mm or 0.01mm depending on probe type Probe Options Single crystal and twin crystal probes Measurement Range in Steel Imm to 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature Connector SubConn MC Power Supply Ni-MH Battery Pack 1.8 Ah (min) Power Rating 1.5W Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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 da	Feature	Description
Measuring Mode Single Echo with Twin Crystal Probes Echo-Echo with Twin Crystal Probes Materials Sound velocity from 2000 m/s to 9000 m/s [0.0787 in/us to 0.3543 in/us] Accuracy ±0.1 mm (±0.004") or 0.0% 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 Imm to 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature Connector SubConn MC Power Supply Ni-MH Battery Pack 1.8 Ah (min) Power Rating 1.5W Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 measurements and A-scans per record Computer CogLink allows remote logging and viewing of A-scan graphs. Survey and report generation to PDF file. Craphic analysis of data and statistical calculations. Data output via PS-485 s	Feature	Description Multiple Februarith Cingle Crustel Probes
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 1mm to 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature Connector SubConn MC Power Supply Ni-MH Battery Pack 1.8 Ah (min) Power Rating 1.5W Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp10°C to +50°C (14°F to 122°F) Storage Temp20°C to +60°C (-4°F to 140°F) Data Logging 5,000 measurements and A-scans per record Computer Software 2cq Link allows remote logging and viewing of A-scan graphs. Survey and report generation to PDF file. Graphic analysis of data and statistical calculations. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 51.4" (Vibration) MIL STD 810G Method 51.6" (Transit Drop 1.22m) Designed for BS EN 15317 RoHS Compliant	Measuring Mode	Single Echo with Twin Crystal Probes
Resolution O.1mm, 0.05mm or 0.01mm depending on probe type Probe Options Single crystal and twin crystal probes Measurement Range in Steel Imm to 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature Connector SubConn MC Power Supply Ni-MH Battery Pack 1.8 Ah (min) Power Rating 1.5W Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp10°C to +50°C (14°F to 122°F) Storage Temp20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Depth rated for 300m continuous immersion in sea water MIL STD 810C Method 501.6 (High Temp +55°C) MIL STD 810C Method 501.6 (High Temp +55°C) MIL STD 810C Method 501.6 (High Temp +25°C) MIL STD 810C Method 501.6 (Low temp -20°C) Shock & Impact MIL STD 810C Method 516.7 (Shock 20g) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Designed for BS EN 15317 RoHS Compliant	Materials	Sound velocity from 2000 m/s to 9000 m/s [0.0787 in/us to 0.3543 in/us]
Probe Options Single crystal and twin crystal probes Measurement Range in Steel Imm to 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature Connector SubConn MC Power Supply Ni-MH Battery Pack 1.8 Ah (min) Power Rating 1.5W Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) Shock & Impact MIL STD 810G Method 516.7 (Transit Drop 1.22m) Designed for BS EN 15317 RoHS Compliant	Accuracy	± 0.1 mm (± 0.004 ") or 0.1% of thickness measurement whichever is the greatest
Measurement Range in Steel Imm to 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature Connector SubConn MC Power Supply Ni-MH Battery Pack 1.8 Ah (min) Power Rating 1.5W Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4° VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 5016. (High Temp +55°C) MIL STD 810G Method 516.7 (Shock 20g) MIL STD 810G Method 516.7 (Shock 20g) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Shock & Impact Designed for BS EN 15317 RoHS Compliant	Resolution	0.1mm, 0.05mm or 0.01mm depending on probe type
Range in Steel material and temperature Connector SubConn MC Power Supply Ni-MH Battery Pack 1.8 Ah (min) Power Rating 1.5W Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 5016. (High Temp +55°C) MIL STD 810G Method 514.7 (Vibration) Shock & Impact MIL STD 810G Method 516.7 (Shock 20g) MIL STD 810G Method 516.7 (Shock 20g) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Standards Designed for BS EN 15317 RoHS Compliant	Probe Options	Single crystal and twin crystal probes
Power Supply Ni-MH Battery Pack 1.8 Ah (min) Power Rating 1.5W Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp10°C to +50°C (14°F to 122°F) Storage Temp20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) Shock & Impact MIL STD 810G Method 504.7 (Vibration) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Designed for BS EN 15317 ROHS Compliant		
Probe Sockets Lemo Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp10°C to +50°C (14°F to 122°F) Storage Temp20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating MIL STD 810G Method 5016 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) MIL STD 810G Method 516.7 (Vibration) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Standards Designed for BS EN 15317 ROHS Compliant	Connector	SubConn MC
Probe Sockets Battery Life 8 hours minimum continuous measurement Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 501.6 (Low temp -20°C) Shock & 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) Designed for BS EN 15317 ROHS Compliant	Power Supply	Ni-MH Battery Pack 1.8 Ah (min)
Battery Life Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp10°C to +50°C (14°F to 122°F) Storage Temp20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) MIL STD 810G Method 516.7 (Shock 20g) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Designed for BS EN 15317 RoHS Compliant	Power Rating	1.5W
Display 2.4" VGA, sunlight readable colour display Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) Shock & 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) Designed for BS EN 15317 ROHS Compliant	Probe Sockets	Lemo
Size 80mm x 305mm x 65mm (W x L x D) Weight 1 kg with battery Operating Temp10°C to +50°C (14°F to 122°F) Storage Temp20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) Shock & Impact MIL STD 810G Method 516.7 (Vibration) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Standards Designed for BS EN 15317 RoHS Compliant	Battery Life	8 hours minimum continuous measurement
Weight 1 kg with battery Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) Shock & Impact MIL STD 810G Method 514.7 (Vibration) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Designed for BS EN 15317 RoHS Compliant	Display	2.4" VGA, sunlight readable colour display
Operating Temp. -10°C to +50°C (14°F to 122°F) Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) MIL STD 810G Method 514.7 (Vibration) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Standards Designed for BS EN 15317 RoHS Compliant	Size	80mm x 305mm x 65mm (W x L x D)
Storage Temp. -20°C to +60°C (-4°F to 140°F) Data Logging 5,000 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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Environmental Rating Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) MIL STD 810G Method 516.7 (Vibration) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Standards Designed for BS EN 15317 RoHS Compliant	Weight	1 kg with battery
Data Logging 5,000 measurements and A-scans per record	Operating Temp.	-10°C to +50°C (14°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. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) Shock & 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) Designed for BS EN 15317 ROHS Compliant	Storage Temp.	-20°C to +60°C (-4°F to 140°F)
Computer Software generation to PDF file. Graphic analysis of data and statistical calculations. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink Depth Sensor Range 0 to 300m (30Bar) Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) MIL STD 810G Method 514.7 (Vibration) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Standards Designed for BS EN 15317 RoHS Compliant	Data Logging	5,000 measurements and A-scans per record
Depth rated for 300m continuous immersion in sea water MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C)		generation to PDF file. Graphic analysis of data and statistical calculations. Data output via RS-485 serial connection to transfer data to a Windows® computer
Rating MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C) 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 BS EN 15317 RoHS Compliant	Depth Sensor	Range 0 to 300m (30Bar)
Shock & Impact MIL STD 810G Method 516.7 (Shock 20g) MIL STD 810G Method 516.7 (Transit Drop 1.22m) Standards Designed for BS EN 15317 RoHS Compliant		MIL STD 810G Method 501.6 (High Temp +55°C)
Standards RoHS Compliant	Shock & Impact	MIL STD 810G Method 516.7 (Shock 20g)
Warranty 3 years on gauge and 6 months on probe	Standards	
	Warranty	3 years on gauge and 6 months on probe



ISSI 05/23 All information provided is subject to change without prior notice.

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