

and electronics with a truly simple to use interface.

IDEAL FOR USE IN













CYGNUS FMD SYSTEM KEY FEATURES

The FMD system comprises three fundamental parts:

VERSATILE

The FMD system is both diver or ROV deployable. Being of a compact design the probe is able to get into to hard to reach areas (e.g. K nodes) where other inspection methods cannot. A range of versatile options to suit working depths and varying requirements are available:



PROBE AND PROBE HANDLER



SUBSEA UNIT LIGHTWEIGHT ACETAL



CABLE PROTECTOR
PROVIDES EXTRA
CABLE PROTECTION
AND AN
ATTACHMENT POINT



SELF ALIGNING
PROBE HANDLER
LIGHTWEIGHT
ACETAL



SYSTEM TEST TANK
USED TO RUN A
FULL SYSTEM TEST
OF THE FMD SYSTEM



UMBILICAL CABLE 120M LENGTH OR 350M LENGTH



GO TO PRODUCT PAGE



STAINLESS STEEL HANDLE OPTIONSFISHTAIL OR T-BAR FOR ROVS





COST EFFECTIVE

The Cygnus FMD System is owner operated and extremely easy to learn and understand. Due to its simplicity of use, the FMD system can be used by a range of operators, with varying experience, without the need for external contractors.

EASY TO USE

The Cygnus FMD has an innovative probe handling solution which self aligns, ensuring correct contact with the member, even when approached from an angle.

The system also has a contact sensor which will not allow a test to be taken unless the probe is correctly aligned.

The system returns a simple DRY / FLOODED result to the reporting software with results logged at the surface.

RUGGED

Available in high grade acetal for the harshest environments. The FMD equipment is designed to the highest standards, supported by a three year warranty.

RELIABLE

Cygnus is an ultrasonic specialist. Years of industry experience and design expertise combine to make this system an extremely advanced, effective and reliable Ultrasonic FMD System available.

- The purpose-designed system boasts:
- advanced signal processing
- an advanced peak detection algorithm
- low distortion / low noise data acquisition to ensure highest level of confidence and to eliminate false readings.
- The system will only take a measurement when the contact sensor detects probe contact, ensuring reliable results every time. The reporting software will indicate at the surface should the probe lose contact during a test.
- System Test Function ensures the reliability of the system before it is deployed.

FMD REPORTING SOFTWARE

- Used to perform system tests
- · Displays test results
- Displays A-Scans for verification
- Indicator shows RED if flooded, GREEN if dry
- · Logs results for offline analysis
- Reports can be generated and exported to PDF and Excel



CYGNUS FMD SYSTEM

Power Supply Input to Electronics Bottle Power Supply Input to Electronics Bottle Rains supply Requirements for Power Supply and Comms Unit (Diver) Rains supply supply input Supplied with kit. Rains supply supplied with kit. Rains supply supplied with kit.	Feature	Description	
Electronics Bottle Power Supply Requirements for Power Supply and Comms Unit (Diver) Mains supply 110AC or 230VAC Connections Probe connector CRE PL-A-09-M. Mates with Bulkhead CRE BR-A-09-F Type 19 Power/Comms connector MCBH4F External Power/Comms connector MCBH6M Ceneral Attributes Operating Temperature Range -10°C to +50°C (14°F to 122°F) Storage Temperature Range -10°C to +35°C (14°F to 95°F) Measurement Ranges 200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft Measurement Resolution Imm Transmitter Pulser Voltage Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Power Supply Requirements (Generic)		
Mains supply110AC or 230VACConnectionsCRE PL-A-09-M. Mates with Bulkhead CRE BR-A-09-F Type 19Probe connectorMCBH4FExternal Power/Comms connectorMCBH6MGeneral AttributesOperating Temperature Range-10°C to +50°C (14°F to 122°F)Storage Temperature Range-10°C to +35°C (14°F to 95°F)Measurement Ranges200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ftMeasurement Resolution1mmTransmitterPulser Voltage100V to 400V (adjustable)Pulse Width850ns (adjustable)Damping470 OhmReceiverUseable Gain range0dB to 70dB (adjustable)ProbeCentre Frequency0.5MHzTechnologyPiezo-compositePressure RatingElectronics BottleTested to 400mProbe AssemblyTested to 400mOther			
Connections Probe connector CRE PL-A-09-M. Mates with Bulkhead CRE BR-A-09-F Type 19 Power/Comms connector MCBH4F External Power/Comms connector MCBH6M General Attributes Operating Temperature Range -10°C to +50°C (14°F to 122°F) Storage Temperature Range -10°C to +35°C (14°F to 95°F) Measurement Ranges 200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft Measurement Resolution Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Cother	Power Supply Requirements for Power Supply and Comms Unit (Diver)		
Probe connector CRE PL-A-09-M. Mates with Bulkhead CRE BR-A-09-F Type 19 Power/Comms connector MCBH6M General Attributes Operating Temperature Range -10°C to +50°C (14°F to 122°F) Storage Temperature Range -10°C to +35°C (14°F to 95°F) Measurement Ranges 200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft Measurement Resolution 1mm Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Mains supply	110AC or 230VAC	
Power/Comms connector MCBH4F External Power/Comms connector MCBH6M General Attributes Operating Temperature Range -10°C to +50°C (14°F to 122°F) Storage Temperature Range -10°C to +35°C (14°F to 95°F) Measurement Ranges 200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft Measurement Resolution 1mm Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Other	Connections		
External Power/Comms connector General Attributes Operating Temperature Range -10°C to +50°C (14°F to 122°F) Storage Temperature Range -10°C to +35°C (14°F to 95°F) Measurement Ranges 200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft Measurement Resolution 1mm Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Other	Probe connector	CRE PL-A-09-M. Mates with Bulkhead CRE BR-A-09-F Type 19	
General Attributes Operating Temperature Range -10°C to +50°C (14°F to 122°F) Storage Temperature Range -10°C to +35°C (14°F to 95°F) Measurement Ranges 200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft Measurement Resolution 1mm Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Power/Comms connector	MCBH4F	
Operating Temperature Range Storage Temperature Range -10°C to +50°C (14°F to 122°F) Storage Temperature Range -10°C to +35°C (14°F to 95°F) Measurement Ranges 200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft Measurement Resolution Imm Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Other	External Power/Comms connector	MCBH6M	
Storage Temperature Range -10°C to +35°C (14°F to 95°F) Measurement Ranges 200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft Measurement Resolution 1mm Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Other	General Attributes		
Measurement Ranges200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ftMeasurement Resolution1mmTransmitterPulser Voltage100V to 400V (adjustable)Pulse Width850ns (adjustable)Damping470 OhmReceiverUseable Gain range0dB to 70dB (adjustable)ProbeCentre Frequency0.5MHzTechnologyPiezo-compositePressure RatingElectronics BottleTested to 400mOtherOther	Operating Temperature Range	-10°C to +50°C (14°F to 122°F)	
Measurement Resolution Imm Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Other	Storage Temperature Range	-10°C to +35°C (14°F to 95°F)	
Transmitter Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Other	Measurement Ranges	200mm(0.2m) to 2500mm(2.5m), 0.66ft to 6.56ft	
Pulser Voltage 100V to 400V (adjustable) Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range 0dB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Other	Measurement Resolution	lmm	
Pulse Width 850ns (adjustable) Damping 470 Ohm Receiver Useable Gain range OdB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Other	Transmitter		
Damping 470 Ohm Receiver Useable Gain range OdB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Pulser Voltage	100V to 400V (adjustable)	
Receiver Useable Gain range OdB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Pulse Width	850ns (adjustable)	
Useable Gain range OdB to 70dB (adjustable) Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Damping	470 Ohm	
Probe Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Receiver		
Centre Frequency 0.5MHz Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Useable Gain range	OdB to 70dB (adjustable)	
Technology Piezo-composite Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Probe		
Pressure Rating Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Centre Frequency	0.5MHz	
Electronics Bottle Tested to 400m Probe Assembly Tested to 400m Other	Technology	Piezo-composite	
Probe Assembly Tested to 400m Other	Pressure Rating		
Other	Electronics Bottle	Tested to 400m	
	Probe Assembly	Tested to 400m	
Compliance CE, UKCA, RoHS. Declarations of Conformity supplied with kit.	Other		
	Compliance	CE, UKCA, RoHS. Declarations of Conformity supplied with kit.	
Dry Weights			
Acetal Electronics Bottle 0.9kg	Acetal Electronics Bottle	0.9kg	
Acetal Probe Holder 1.95kg max.	Acetal Probe Holder	1.95kg max.	



ISS7 02/25 All information provided is subject to change without prior notice.

Cygnus Instruments Ltd Cygnus House 30 Prince of Wales Road Dorchester Dorset DT11PW United Kingdom



Cygnus Headquarters

Call +44 (0) 1305 265 533 Email sales@cygnus-instruments.com Visit cvanus-instruments.com

Cygnus UAE

Call +971 50 3459305 Email ribu@cygnus-instruments.com Visit cygnus-instruments.com

Cygnus USA

Call +1 346 223 0415
Email sales@cygnus-instruments.con

Cygnus Singapore

Call +65 6252 5909 Email sales@cygnus-instruments.sq Visit sg.cygnus-instruments.com