



CYGNUS – Catalogue

ULTRASONIC THICKNESS GAUGES, HATCH COVER LEAK DETECTOR & FLOODED MEMBER DETECTOR

Cygnus CATALOGUE















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Cygnus 2⁺ HANDS FREE (Consolidated)

Multi-Mode Ultrasonic Thickness Gauge

All the benefits of the Cygnus 2, plus it can be used in 3 measuring modes:

- * Multiple Echo with Single Crystal probes
- * Echo-Echo with Twin Crystal probes
- * Single Echo with Twin Crystal probes

Cygnus 2* HANDS FREE Kit

Order Code 050-2500/5

Cygnus 2+ HANDS FREE Mk5 UTG Kit, without Probe

Contents: Ultrasonic Thickness Gauge - 3 x AA batteries, steel test block - ultrasonic & membrane couplant accessory pouch, neck & wrist straps & fixings - mini USB to USB cable - manual & carry case (The gauge has a Twin Lemo 00 connector)

Please select probe(s) & lead(s) from the lists below:



Firmware Upgrades

Firmware upgrade from Cygnus 2+ to Cygnus 4	050-4601
Firmware upgrade from Cygnus 2+ to Cygnus 4+	050-4602
Firmware upgrade from Cygnus 2+ to Cygnus 6+	050-6602

Single Crystal Probes for Cygnus 2⁺ HANDS FREE Gauges

•	,	•	5	
(All Probe	es are supplied with 20 membranes	: & membrane key)		
Probe S	S2C Single 2.25MHz 13mm w	vith BNC connector		004-9500
Probe S	33C Single 3.5MHz 13mm with	th BNC connector		004-9504
Probe S	S5C Single 5MHz 13mm with	BNC connector		004-9508
lead for t	use with the above single crystal	probes & a Cygnus 2+:		
Probe L	ead Twin Lemo 00 to BNC 1	.35m (4'6")		004-0410
Probe S	S5A Single 5MHz 6mm with S	Single Lemo 00 connector		004-9507
lead for u	ise with the S5A probe & a Cygn	us 2+:		
Probe L	ead Twin Lemo 00 to Single	Lemo 00 1.4m (4'6")		004-0412
Twin C	rivetal Probas for Cyanu	c 2+ HANDS EDEE gauge		



Twin Crystal Probes for Cygnus 2+ HANDS FREE gauges

Probe T2C Twin 2MHz 17/12mm with Twin Lemo 00 Connector	004-9550
Probe T5B Twin 5MHz 13/8mm with Twin Lemo 00	004-9558
lead for use with the above twin crystal probes & a Cygnus 2+:	
Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")	004-0411
Probe T5B-CSW 5MHz 13/8mm Side Exit Cable to Twin Lemo00	004-9590
Probe T5A Twin 5MHz 9.5/6.5mm Side Exit Cable to Twin Lemo 00	004-9560
Probe T7A-CSWB Twin 7.5MHz 6.5/4.5mm Side Exit Cable to Twin Lemo00	004-9591



4 Step Test Block for use with Twin Crystal Probes (non-discountable items)

Test Block Steel 4 Step Metric 2.5 - 20mm 2.5/5/10/20	001-4858
Test Block Steel 4 Step Imperial 0.1 - 0.75 inch	001-4859



Marinised (underwater) Probes for Cygnus 2+ HANDS FREE Gauges

Marinised Probe S2C 2.25MHz 13mm	002-9387
Marinised cable for use underwater priced per metre	001-0434
(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus) Twin Lemo 00 to Single Lemo 1 adapter for C2+/C4+/C6+Mk5 UTG	050-0106
this adapter is required for using the above marinised probes with a "+" model Mk5 gauge	



Accessories for Cygnus 2+ HANDS FREE

Neck Strap with fixings for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0115
(supplied as part of gauge kit)	
Hand Strap with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0110
(supplied as part of gauge kit)	



Belt Clip with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG 050-0100



Peli Carry Case for Cygnus 2 / 2+ / 4 Mk5 UTG Gauge Kit (Non discountable item)

For Spare Leads see page 17 & for Spare Knurled Rings & Membranes page 18

Cygnus 4 GENERAL PURPOSE (Consolidated)

Multiple Echo Ultrasonic Thickness Gauge

A compact general purpose Ultrasonic Thickness Gauge (UTG) giving accurate, error-checked through-coating measurements using our Multiple Echo technology. Highly versatile, can be used either right or left handed, in most industrial or shipping applications. The LCD display is easily read outdoors and is perfect for use in all light conditions. Vibration alert settings for user feedback.



Cygnus 4 GENERAL PURPOSE Kit

Cygnus 4 GENERAL PURPOSE Mk5 UTG kit, without Probe

Order Code 050-4000/5

Contents: Ultrasonic Thickness Gauge - 3 x AA batteries - steel test block - ultrasonic & membrane couplant - accessory pouch - neck & wrist straps & fixings - mini USB to USB cable - manual & carry case (The gauge has a Lemo 1 connector)

Please select probe(s) & lead(s) from the lists below:



Firmware Upgrades

Firmware upgrade from Cygnus 4 to Cygnus 4+	050-4603
Firmware upgrade from Cygnus 4 to Cygnus 6+	050-6603

Probes for Cygnus 4 GENERAL PURPOSE Gauges

(All Probes are supplied with 20 membranes & membrane key)	
Probe S2C Single 2.25MHz 13mm with BNC connector	004-9500
Probe S3C Single 3.5MHz 13mm with BNC connector	004-9504
Probe S5C Single 5MHz 13mm with BNC connector	004-9508
lead for use with the above single crystal probes & a Cygnus 4	
Probe Lead Twin Lemo 00 to BNC 1.35m (4'6")	004-0410
Draha CEA Cingle FAULE Cours with Cingle Lance CO compactor	004 0507
Probe S5A Single 5MHz 6mm with Single Lemo 00 connector	004-9507
lead for use with the S5A probe & a Cygnus 4	
Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")	004-0412





Right Angle Probes for Cygnus 4 GENERAL PURPOSE Gauges

	gg	
(All right angle probes are supplied with 1.35 m integral probe lead with a Lemo 1 connector, 20 membranes & membra		membrane key)
	Right Angle Probe S2C 2.25MHz 13mm Lemo 1 (integral cable)	001-9387
	Right Angle Probe S3C 3.5MHz 13mm Lemo 1 (integral cable)	001-9389
	Right Angle S5A Probe 5MHz 6mm (1/4") Lemo 1(integral cable)	001-9390
	Twin Lemo 00 to Single Lemo 1 adapter for C2+/C4+/C6+Mk5 UTG	050-0106
	this adapter is required for using the above probes	



Twin Lemo 00 to Single Lemo 1 adapter

Marinised (underwater) Probes for Cygnus 4 GENERAL PURPOSE Gauges

(Please add M	larinised Cable	length as required fo	r all Marinised Probe orders.	Cable includes a Lemo	1 connector to connect with th	e gauge)

Marinised Probe S2C 2.25MHz 13mm	002-9387
Marinised cable for use underwater priced per metre	001-0434
(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus)	
Twin Lemo 00 to Single Lemo 1 adapter for C2+/C4+/C6+Mk5 UTG	050-0106
this adapter is required for using the above marinised probes	
this adapter is required for using the above marinised probes	



Twin Lemo 00 to Single Lemo 1 adapter

Accessories for Cygnus 4 GENERAL PURPOSE

Neck Strap with fixings for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0115
(supplied as part of gauge kit)	
Hand Strap with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0110

Belt Clip with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG 050-0100





(Non discountable item)
For Spare Leads see page 17 & for Spare Knurled Rings & Membranes page 18



Cygnus 4+ GENERAL PURPOSE (Consolidated)

Multi-Mode Ultrasonic Thickness Gauge

All the benefits of the Cygnus 4, plus A-Scan display and sequential data logging as standard. A data logging upgrade is also available to add extra data logging functions. The gauge can be used in $3\,$ measuring modes:

- * Multiple Echo with Single Crystal probes
- * Echo-Echo with Twin Crystal probes
- * Single Echo with Twin Crystal probes

Cygnus 4⁺ GENERAL PURPOSE Kit

Order Code

Cygnus 4+ GENERAL PURPOSE Mk5 UTG Kit, without Probe

Contents: Ultrasonic Thickness Gauge - with sequential data logging - 3 x AA batteries - steel test block - ultrasonic & membrane couplant - accessory pouch - neck & wrist straps & fixings - SD card - CygLink software - mini USB to USB data cable - manual & carry case (The gauge has a Twin Lemo 00 connector)

Please select probe(s) & lead(s) from the lists below:



Firmware upgrade from Cygnus 4+ to Cygnus 6+ 050-6601 050-4520 Cygnus 4+ Mk5 software upgrade - added logging functions

adds grid logging & radial points facility



Probes for Cygnus 4+ GENERAL PURPOSE Gauges

(All Probes are supplied with 20 membranes & membrane key)	
Probe S2C Single 2.25MHz 13mm with BNC connector	004-9500
Probe S3C Single 3.5MHz 13mm with BNC connector	004-9504
Probe S5C Single 5MHz 13mm with BNC connector	004-9508
lead for use with the above single crystal probes & a Cygnus 4+:	
Probe Lead Twin Lemo 00 to BNC 1.35m (4'6")	004-0410

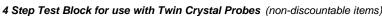


Twin Crystal Probes for Cygnus 4+ GENERAL PURPOSE gauges



TWIII Crystair robes for Cygnus 4+ GENERAL FOR OSE gauges	
Probe T2C Twin 2MHz 17/12mm with Twin Lemo 00 Connector	004-9550
Probe T5B Twin 5MHz 13/8mm with Twin Lemo 00	004-9558
lead for use with the above twin crystal probes & a Cygnus 4+:	
Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")	004-0411

Probe T5B-CSW 5MHz 13/8mm Side Exit Cable to Twin Lemo00	004-9590
Probe T5A Twin 5MHz 9.5/6.5mm Side Exit Cable to Twin Lemo 00	004-9560
Probe T7A-CSWB Twin 7.5MHz 6.5/4.5mm Side Exit Cable to Twin Lemo00	004-9591



Test Block Steel 4 Step Metric 2.5 - 20mm 2.5/5/10/20 001-4858 Test Block Steel 4 Step Imperial 0.1 - 0.75 inch 001-4859



Marinised (underwater) Probes for Cygnus 4+ HANDS FREE Gauges

Marinised Probe S2C 2.25MHz 13mm	002-9387
Marinised cable for use underwater priced per metre	001-0434
(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus)	
Twin Lemo 00 to Single Lemo 1 adapter for C2+/C4+/C6+Mk5 UTG	050-0106
this adapter is required for using the above marinised probes with a "+" model Mk5 gauge	



Accessories for Cygnus 4+ GENERAL PURPOSE

For Spare Leads see page 17 & for Spare Knurled Rings & Membranes page 18

Mini USB cable for data transfer 050-0120 (supplied as part of gauge kit) Neck Strap with fixings for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG 050-0115 (supplied as part of gauge kit) Hand Strap with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG 050-0110 (supplied as part of gauge kit)



Belt Clip with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG 050-0100 Peli Carry Case for Cygnus 4+ Mk5 Gauge Kit (Non discountable item)

050-4511/5







Cygnus 6+ PRO (Consolidated)

Multi-Mode Ultrasonic Thickness Gauge

The Cygnus 6⁺ PRO has a front LED display plus an end mounted OLED display. It includes all the features of the 4⁺, plus comprehensive data logging, which includes grids, radial points & the facility to add bespoke templates. It has a B-Scan display. It also includes the option to choose manual gain control if required. The gauge can be connetced to a computer either via the USB cable supplied or Bluetooth (please note the Bluetooth dongle is sold separately)



Cygnus 6+ PRO Kit

Order Code 050-6500/5

050-0100

050-6511/5

Cygnus 6+ PRO Mk5 UTG Kit, without Probe

Contents: Ultrasonic Thickness Gauge with comprehensive data logging - 3 x AA batteries, steel test block, ultrasonic & membrane couplant - accessory pouch - neck & wrist straps & fixings - SD card - CygLink software - mini USB to USB data cable - manual & carry case (The gauge has a Twin Lemo 00 connector)

*Please select probe(s) & lead(s) from the lists below:



Probes for Cygnus 6+ PRO Gauges

Trobes for Oyghus of The Gauges		
(All Probes are supplied with 20 membranes & membrane key)		
Probe S2C Single 2.25MHz 13mm with BNC connector	004-9500	
Probe S3C Single 3.5MHz 13mm with BNC connector	004-9504	A.
Probe S5C Single 5MHz 13mm with BNC connector	004-9508	世
lead for use with the above single crystal probes & a Cygnus 6+:		
Probe Lead Twin Lemo 00 to BNC 1.35m (4'6")	004-0410	
Probe S5A Single 5MHz 6mm with Single Lemo 00 connector	004-9507	
lead for use with the S5A probe & a Cygnus 6+:		
Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")	004-0412	
Twin Crystal Probes for Cygnus 6+ PRO gauges		
Probe T2C Twin 2MHz 17/12mm with Twin Lemo 00 Connector	004-9550	7
Probe T5B Twin 5MHz 13/8mm with Twin Lemo 00	004-9558	*
lead for use with the above twin crystal probes & a Cygnus 6+:		
Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")	004-0411	60
Probe T5B-CSW 5MHz 13/8mm Side Exit Cable to Twin Lemo00	004-9590	_ AA
Probe T5A Twin 5MHz 9.5/6.5mm Side Exit Cable to Twin Lemo 00	004-9560	
Probe T7A-CSWB Twin 7.5MHz 6.5/4.5mm Side Exit Cable to Twin Lemo00	004-9591	
4 Step Test Block for use with Twin Crystal Probes (non-discountable items)		
Test Block Steel 4 Step Metric 2.5 - 20mm 2.5/5/10/20	001-4858	
Test Block Steel 4 Step Imperial 0.1 - 0.75 inch	001-4859	1 1 -1
Marinised (underwater) Probes for Cygnus 6+ HANDS FREE Gauges		trop of the second second
Marinised Probe S2C 2.25MHz 13mm	002-9387	
Marinised cable for use underwater priced per metre	001-0434	
(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus)		
Twin Lemo 00 to Single Lemo 1 adapter for C2+/C4+/C6+Mk5 UTG	050-0106	
this adapter is required for using the above marinised probes with a "+" model Mk5 gauge		
Accessories for Cygnus 6+ PRO		
Mini USB cable for data transfer	050-0120	
(supplied as part of gauge kit)		
Bluetooth Adapter V4.0 USB Belkin	050-0125	
(not included in gauge kit - needs to be ordered if required		
Neck Strap with fixings for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0115	
(supplied as part of gauge kit)		
Hand Strap with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0110	



Belt Clip with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG

For Spare Leads see page 17 & for Spare Knurled Rings & Membranes page 18

Peli Carry Case for Cygnus 6+ Mk5 Gauge Kit

(supplied as part of gauge kit)

(Non discountable item)

Cygnus 4+ High Temperature Kit

Order Code

050-4502/5

Supplied as a kit form "Ready To Go" for high temperature thickness measuring, with all of the additional benefits of our highly sucessful Cygnus 4+

The Cygnus 4+ High Temperature kit consists of the following items

1 off Cygnus 4+ gauge standard kit already loaded with the High Temperature firmware supplied with :3 x AA batteries - steel test block - standard ultrasonic & membrane couplar accessory pouch - neck & wrist straps & fixings - SD card - CygLink

+ 1 off of the following items
PROBE T5B-MAUH 5MHz Twin element
Probe Lead Twin Lemo 00 to Microdot for T5B-MAUH

COUPLANT High Temperature (-45° to 412°C)

* Note - Alternative Stainless Steel braided lead version available on request









Cygnus 6+ PRO High Temperature Kit

Order Code

050-6502/5

Supplied as a kit form "Ready To Go" for high temperature thickness measuring, with all of the additional benefits of our highly successful Cygnus 6+



The Cygnus 6+ High Temperature kit consists of the following items

1 off Cygnus 6+ gauge standard kit already loaded with the High Temperature firmware supplied with :3 x AA batteries - steel test block - standard ultrasonic & membrane couplant accessory pouch - neck & wrist straps & fixings - SD card - CygLink

+ 1 off of the following items
PROBE T5B-MAUH 5MHz Twin element
Probe Lead Twin Lemo 00 to Microdot for T5B-MAUH
COUPLANT High Temperature (-45° to 412°C)

* Note - Alternative Stainless Steel braided lead version available on request



Order Code







PROBE T5B-MAUH 5MHz Twin element 004-9561

ROBE 13B-WAUR SWIRZ TWIRLERIEFIL 004-9361

Probe Lead Twin Lemo 00 to Microdot for T5B-MAUH 004-0418

Probe Lead Twin Lemo 00 to Microdot S/S Braid 004-0417

COUPLANT High Temperature (-45° to 412°C) 001-3735











High Temperature Kit - Additional Standard Accessories

Probes for Cygnus 4+ & 6+ PRO Gauges		
(All Probes are supplied with 20 membranes & membrane key)		
Probe S2C Single 2.25MHz 13mm with BNC connector	004-9500	14
Probe S3C Single 3.5MHz 13mm with BNC connector	004-9504	
Probe S5C Single 5MHz 13mm with BNC connector	004-9508	
lead for use with the above single crystal probes & a Cygnus 6+:		
Probe Lead Twin Lemo 00 to BNC 1.35m (4'6")	004-0410	
Probe S5A Single 5MHz 6mm with Single Lemo 00 connector	004-9507	
lead for use with the S5A probe & a Cygnus 6+:		
Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")	004-0412	
Twin Crustal Probes for Cyanus 6, PPO gauges		
Twin Crystal Probes for Cygnus 6+ PRO gauges Probe T2C Twin 2MHz 17/12mm with Twin Lemo 00 Connector	004-9550	
Probe T5B Twin 5MHz 13/8mm with Twin Lemo 00	004-9558	
lead for use with the above twin crystal probes & a Cygnus 6+:	004 0000	97
Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")	004-0411	5
Trobe Load Thin Lonio Of to Thin Lonio Of 1.50m (10)	0010111	(CO)
Probe T5B-CSW 5MHz 13/8mm Side Exit Cable to Twin Lemo00	004-9590	
Probe T5A Twin 5MHz 9.5/6.5mm Side Exit Cable to Twin Lemo 00	004-9560	30
Probe T7A-CSWB Twin 7.5MHz 6.5/4.5mm Side Exit Cable to Twin Lemo00	004-9591	
Probe T5B-CSW 5MHz 13/8mm Side Exit Cable to Twin Lemo00	004-9590	
Tibbe 13D-03W SWI12 13/6Hill Side Exit Cable to TWIII Ecilio00	004-9390	
4 Step Test Block for use with Twin Crystal Probes (non-discountable items)		
T + Pl + Qt + 4 Qt - M + 1 - Q 5 - QQ - Q 5 (5/40/90	004 4050	
Test Block Steel 4 Step Metric 2.5 - 20mm 2.5/5/10/20	001-4858	1 1
Test Block Steel 4 Step Imperial 0.1 - 0.75 inch	001-4859	
Marinised (underwater) Probes for Cygnus 4+ & 6+ HANDS FREE Gauges		
Marinised Probe S2C 2.25MHz 13mm	002-9387	
Marinised cable for use underwater priced per metre	001-0434	
(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus)		
Twin Lemo 00 to Single Lemo 1 adapter for C2+/C4+/C6+Mk5 UTG	050-0106	
this adapter is required for using the above marinised probes with a "+" model Mk5 gauge		
Accessories for Cygnus 6+ PRU		
Mini USB cable for data transfer	050-0120	
(supplied as part of gauge kit)	050 0405	
Bluetooth Adapter V4.0 USB Belkin (not included in gauge kit - needs to be ordered if required	050-0125	
Neck Strap with fixings for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0115	
(supplied as part of gauge kit) Hand Strap with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0110	
(supplied as part of gauge kit)	000 0110	
Belt Clip with fixing for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0100	
Peli Carry Case for Cygnus 6+ Mk5 Gauge Kit	050-6511/5	
(Non discountable item)		
For Spare Leads see page 17 & for Spare Knurled Rings & Membranes page 18		



Cygnus 1 Ex Intrinsically Safe ATEX & MET 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.

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

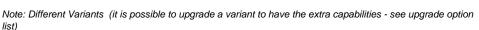




Order Code

Cyanus 1 Ex Intrinsically Safe ATEX & MET Kits

Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – SC Variant, Excluding Probes 060-1105 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – TC Variant, Excluding Probes 060-1110 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – PLUS Variant, Excluding Probes 060-1115 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – PRO Variant, Excluding Probes 060-1120 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – SC Variant, Excluding Probes 060-2105 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – TC Variant, Excluding Probes 060-2110 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PLUS Variant, Excluding Probes 060-2115 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PRO Variant, Excluding Probes 060-2115 Cygnus 1 Ex Ultrasonic Thickness Gauge - 2 rechargeable batteries - hex tool, ultrasonic & membrane couplant - 15mm/0.5° steel test block - battery charger, USB Communication Interface, manual & carry case Please select probe(s) from the list below:	_	yguae : = x mamoroumy care : : = x a m= : : are	0.40. 0040
Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – PLUS Variant, Excluding Probes 060-1115 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – PRO Variant, Excluding Probes 060-1120 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – SC Variant, Excluding Probes 060-2105 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – TC Variant, Excluding Probes 060-2110 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PLUS Variant, Excluding Probes 060-2115 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PRO Variant, Excluding Probes 060-2120 Contents: Ultrasonic Thickness Gauge - 2 rechargeable batteries - hex tool, ultrasonic & membrane couplant - 15mm/0.5° steel test block - battery charger, USB Communication Interface, manual & carry case	С	sygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – SC Variant, Excluding Probes	060-1105
Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – PRO Variant, Excluding Probes O60-1120 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – SC Variant, Excluding Probes O60-2105 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – TC Variant, Excluding Probes O60-2110 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PLUS Variant, Excluding Probes O60-2115 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PRO Variant, Excluding Probes O60-2120 Contents: Ultrasonic Thickness Gauge - 2 rechargeable batteries - hex tool, ultrasonic & membrane couplant - 15mm/0.5" steel test block - battery charger, USB Communication Interface, manual & carry case	С	cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – TC Variant, Excluding Probes	060-1110
Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – SC Variant, Excluding Probes Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – TC Variant, Excluding Probes O60-2110 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PLUS Variant, Excluding Probes Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PRO Variant, Excluding Probes Contents: Ultrasonic Thickness Gauge - 2 rechargeable batteries - hex tool, ultrasonic & membrane couplant - 15mm/0.5" steel test block - battery charger, USB Communication Interface, manual & carry case	С	cygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – PLUS Variant, Excluding Probes	060-1115
Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – TC Variant, Excluding Probes 060-2110 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PLUS Variant, Excluding Probes 060-2115 Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PRO Variant, Excluding Probes 060-2120 Contents: Ultrasonic Thickness Gauge - 2 rechargeable batteries - hex tool, ultrasonic & membrane couplant - 15mm/0.5" steel test block - battery charger, USB Communication Interface, manual & carry case	С	tygnus 1 Ex Ultrasonic Thickness Gauge Kit (ATEX/IECEx/UKEx) – PRO Variant, Excluding Probes	060-1120
Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PLUS Variant, Excluding Probes Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PRO Variant, Excluding Probes Contents: Ultrasonic Thickness Gauge - 2 rechargeable batteries - hex tool, ultrasonic & membrane couplant - 15mm/0.5" steel test block - battery charger, USB Communication Interface, manual & carry case	С	cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – SC Variant, Excluding Probes	060-2105
Cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PRO Variant, Excluding Probes Contents: Ultrasonic Thickness Gauge - 2 rechargeable batteries - hex tool, ultrasonic & membrane couplant - 15mm/0.5" steel test block - battery charger, USB Communication Interface, manual & carry case	С	cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – TC Variant, Excluding Probes	060-2110
charger, USB Communication Interface, manual & carry case	С	cygnus 1 Ex Ultrasonic Thickness Gauge Kit (MET-US) – PLUS Variant, Excluding Probes	060-2115
	ch	narger, USB Communication Interface, manual & carry case	060-2120



The SC variant is for Single Crystal use only, Programmed with Deep coat, Multiple echo, 1 & 2 point cal, Materials List, Measurement Hold

The TC variant is for Twin Crystal use only, Programmed with Echo - Echo & Single Echo, Auto Probe detection, 1 & 2 point cal, Materials List, Measurement Hold

The PLUS variant is for BOTH Single Crystal & Twin Crystal use, Programmed with Multiple Echo, Echo - Echo & Single Echo, Auto Probe detection, Deep Coat, A Scan & B-Scan, Basic Linear Datalogging, 1 & 2 point cal, Materials List, Measurement Hold

The PRO variant is for BOTH Single Crystal & Twin Crystal use, Programmed with Multiple Echo, Echo - Echo & Single Echo, Auto Probe detection, Deep Coat, A Scan & B-Scan, Datalogging (linear, grids, template & comments), Manual Gates(A, A+B, Manual Gain) Measurement set-up, User access, High Temperature Capability, 1 & 2 point cal, Materials List, Measurement Hold

Probes (Straight) for Cygnus 1 Ex Intrinsically Safe Gauges

(All Probes are supplied with 1 m cable, 20 membranes and membrane key.)		
Cygnus Probe S2C-EX 2.25MHz 13mm (1/2") Straight (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1200	
Cygnus Probe S3C-EX 3.5MHz 13mm (1/2") Straight (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1202	
Cygnus Probe S5A-EX 5.0MHz 6mm (1/4") Straight (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1203	
Cygnus Probe T2C-EX 2MHz 17/12mm Straight (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1205	
Cygnus Probe T5B-EX 5MHz 13/8mm Straight (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1206	
Cygnus Probe T5A-EX 5MHz 9.5/6.5mm Straight (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1207	
Cygnus Probe T7A-EX 7.5MHz 7.8/4.5mm Straight (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1208	
Probes (Right Angled) for Cygnus 1 Ex Intrinsically Safe Gauges		
(All Probes are supplied with 1 m cable, 20 membranes and membrane key.)	_	
Cygnus Probe S2C-EX 2.25MHz 13mm (1/2") Right Angle (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1209	
Cyanus Proba S2C 2 5MHz 12mm (1/2") Pight Angle (ATEV/IECEV/IKEV/MET LIS) Cyanus 1 Ev	060 1210	

(7 iii 7 robbe are supplied with 7 m subject 25 membranes and membrane keys)	
Cygnus Probe S2C-EX 2.25MHz 13mm (1/2") Right Angle (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1209
Cygnus Probe S3C 3.5MHz 13mm (1/2") Right Angle (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1210
Cygnus Probe S5A 5.0MHz 6mm (1/4") Right Angle (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1211
Cygnus Probe T2C 2MHz 17/12mm Right Angle (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1212
Cygnus Probe T5B 5MHz 13/8mm Right Angle (ATEX/IECEx/UKEx/MET-US) Cygnus 1 Ex	060-1213

General Spares for Cygnus 1 Ex Intrinsically Safe

Cygnus 1 Ex Battery Charger (UK/EU/USA Plugs)	060-1001
Cygnus 1 Ex USB Communications Interface (ATEX/IECEx/UKEx)	060-1002
Cygnus 1 Ex Rechargeable Battery Pack (ATEX/IECEx/UKEx)	060-1003
Cygnus 1 Ex Carry Case	060-1004

Upgrade options for Cygnus 1 Ex Intrinsically Safe

Cygnus 1 Ex Ultrasonio	Thickness	Gauge Firmware Upgrade	To Add ME & DEEP COAT TO A TC GAUGE	060-3001
Cygnus 1 Ex Ultrasonio	Thickness	Gauge Firmware Upgrade	To Add SE/EE TO A SC GAUGE	060-3002
Cygnus 1 Ex Ultrasonio	Thickness	Gauge Firmware Upgrade	To Add A-Scan	060-3003
Cygnus 1 Ex Ultrasonio	Thickness	Gauge Firmware Upgrade	To Add B-Scan	060-3004
Cygnus 1 Ex Ultrasonio	Thickness	Gauge Firmware Upgrade	To Add Datalogging	060-3005
Cygnus 1 Ex Ultrasonio	Thickness	Gauge Firmware Upgrade	To Add Manual Gates	060-3006
Cygnus 1 Ex Ultrasonio	Thickness	Gauge Firmware Upgrade	To Add High Temp + Manual Gates	060-3007

For Spare Knurled Rings & Membranes page 18



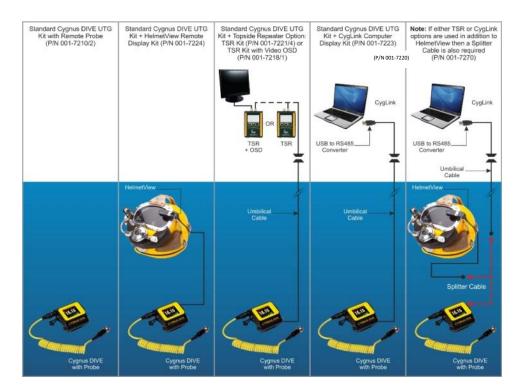
Cygnus DIVE

Wrist-Mountable Underwater Thickness Gauge

The Cygnus DIVE, depth rated to 300 metres, is accurate, reliable and easy to use. The Cygnus DIVE is worn on the diver's forearm, availing an invaluable free hand while performing the thickness survey. A large, very bright colour AMOLI display shows the thickness measurements in big numbers along with a live A-scan for verification. Power is supplied by replaceable, rechargeable, Lithium-Ion battery pack that gives up to 11 hours continuous measurement. The ultrasonic probe is connected by a coiled double jacket cable and rugged locking connector. Now with the option of Single Echo and Echo-Echo Modes for use with a Twin Crystal Probe, ideal for use on extermely heavy corrosion & anchor chain. Single Echo is for use on un-coated surfaces and Echo-Echo for use through paint up to 0.5mm thick. An optional data logging feature is available for storing up to 5000 measurements and A-Scans. CygLink v4. provides surface computer based viewing and data logging. The Topside Repeater unit with Video On-Screen Display option allows the thickness measurements to be overlaid onto the monitor screen / video recording of the survey. HelmetView provides a helmetmounted remote display of thickness measurements.



Order Code



Cygnus DIVE Kits (see next page for Topside Kit options)

Cygnus DIVE Mk3 UTG Kit, without Probe

001-7200/3 Contents: Ultrasonic Thickness Gauge - 2 rechargeable batteries & charger - screen protector- silicone grease - lanyard -

ultrasonic & membrane couplant - 15mm/0.5" steel test block - manual & carry case

Please select probe(s) & lead(s) from the lists below:

Cygnus Data Logging DIVE Mk3 UTG Kit, without Probe

001-7201/3 Contents: Ultrasonic Thickness Gauge - CygLink software on USB flash drive - Umbilical (9-way D) to PC (USB) link lead -

DIVE (Fischer) direct to PC (USB) lead - 2 rechargeable batteries & charger - screen protector, silicone grease - lanyard spare membranes - membrane key - ultrasonic & membrane couplant - 15mm/0.5" steel test block - manual & carry case Please select probe(s) & lead(s) from the lists below:

Single Crystal Probes for Cygnus DIVE Gauge (Multiple Echo Mode)

(All Single Crystal Probes have integral coiled double-jacket cable and rugged locking connector, and are supplied with membrane key and a pack of 20 membranes.)

Probe S2C Single Crystal 2.25MHz 13mm 1/2" for Cygnus DIVE UTG 001-7230 Probe S3C Single Crystal 3.5MHz 13mm ½" for Cygnus DIVE UTG 001-7231 Probe S5C Single Crystal 5MHz 13mm 1/2" for Cygnus DIVE UTG 001-7232 Probe S5A Single Crystal 5MHz 6mm (1/4") for Cygnus DIVE UTG 001-7233

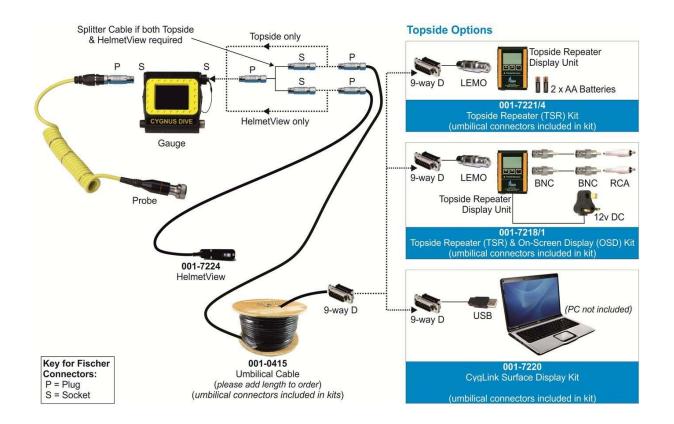
Twin Crystal Probe for Cygnus DIVE Gauge (Single Echo & Echo-Echo Modes)

(All Twin Crystal Probes have integral coiled double-jacket cable and rugged locking connector) Probe T5B Twin Crystal 5MHz 13/8mm for DIVE Mk2 UTG 001-7235 Probe T2C Twin Crystal 2MHz 17/12mm for Cygnus DIVE Mk2 UTG 001-7236



Cygnus DIVE

Wrist-Mountable Underwater Thickness Gauge



Surface/Topside Display Options for Cygnus DIVE Mk2 Gauge

Order Code

Topside Repeater (TSR) Kit for Cygnus DIVE UTG (Includes Umbilical Connectors - add cable) Upgrade Kit for Cygnus DIVE, to add Topside Repeater (TSR) Display Unit 001-7221/4

Kit contents:

Cygnus Topside Repeater display unit - Silicone sleeve - Umbilical (9-way D) to TSR (Lemo) link lead - Cygnus DIVE (Fischer) to (9-way D) topside umbilical connectors - 2 x AA batteries

Please add to order: Umbilical cable (001-0415) & specify length

Topside Repeater (TSR) Kit with Video OSD for Cygnus DIVE

001-7218/1

Upgrade Kit for Cygnus DIVE to add Topside Repeater (TSR) Display Unit with Video On-Screen Display (OSD)
Contents: Cygnus Topside Repeater display unit - Silicone sleeve - Umbilical (9-way D) to TSR (Lemo) link lead Cygnus DIVE (Fischer) to (9-way D) topside umbilical connectors - 2 BNC cables with RCA phono adapters - DC power supply 12 V
universal plug-in

Please add to order: Umbilical cable (001-0415) & specify length

Surface Computer Logging feature for Cygnus DIVE UTG

001-7220

Upgrade Kit for Cygnus DIVE to add CygLink Surface Computer Display with Computer Data Logging Facility Contents: Umbilical (9-way D) to computer (USB) link lead & Cygnus DIVE (Fischer) to (9-way D) topside umbilical connectors CygLink software on USB

Please add to order: Umbilical cable (001-0415) & specify length

Umbilical cable for DIVE / UW / ROV to Topside (per metre)

001-0415

Note - The umbilical cable is NOT supplied with connectors, these are either supplied with the Topside repeater or have to be ordered separately

Cygnus DIVE

Wrist-Mountable Underwater Thickness Gauge

HelmetView for Cygnus DIVE Gauge

Order Code





001-7224/2

HelmetView MK2 Remote Display Kit for Cygnus DIVE UTG An OLED display, integrated link lead to Cygnus DIVE (Fischer) & mounting brackets for Kirby Morgan helmets to display the thickness measurement in front of a diver's lens

(Suitable for use with DIVE Mk1 (orange gauge))

Splitter Cable for Cygnus DIVE HelmetView & Surface Display

001-7270

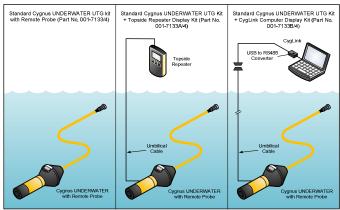
Splitter (Y) cable that enables both HelmetView (Fischer) & an umbilical cable (Fischer) for Topside display options to be connected to the Cygnus DIVE gauge (Fischer)

General Spares for Cygnus DIVE

CygLink Data Logging software upgrade for Cygnus DIVE	001-7219/2	
Upgrade Kit for Cygnus DIVE Mk2 Ultrasonic Thickness Gauge (UTG) to add Data Logging Facility		
Kit contents: Cygnus CygLink Software on USB Flash Drive - Cygnus DIVE Data Logger to USB Lead - Software Enable	r	
Key (on USB Flash Drive)		
Cygnus DIVE (Fischer) direct to computer (USB) Link Lead	001-7271	
Umbilical (9-way D) to PC (USB) Link Lead for CygLink	001-7262	
Umbilical (9-way D) to TSR Display Unit (Lemo) Link Lead	001-0426	
Cygnus CygLink Topside Software on USB Flash Drive	001-8212	(Non discountable)
Video Cables and Adapters for Topside Repeater with OSD	001-0442	
Cygnus DIVE (Fischer)-(9-way D) topside umbilical connectors	001-7260	
Cygnus DIVE UTG Battery, uncharged (Watt Hour Rating: 8.1Wh)	001-7250	
Battery Charger for Cygnus DIVE UTG (UK Mains Plug)	001-7251-Uk	(
Battery Charger for Cygnus DIVE UTG (EU Mains Plug)	001-7251-EL	J
Battery Charger for Cygnus DIVE UTG (US Mains Plug)	001-7251-US	8
Screen Protector for Cygnus DIVE UTG	001-7263	
Replacement Lanyard for Cygnus DIVE UTG	001-7257	
Operation Manual for Cygnus DIVE Mk2 UTG Printed A5	001-7256/2	
(Non discountable item)		

Cygnus UNDERWATER

Diver-Held Underwater Thickness Gauge





A tough underwater Ultrasonic Thickness Gauge (UTG) using our Multiple Echo technology, designed for divers undertaking subsea surveys. Pressure tested to 300 m depth and supplied ready to use as a complete kit in a protective carry case with 2 rechargeable batteries.

Order Code 001-9933/4

001-7133A

001-7133B

001-0415

Cygnus UNDERWATER Kits

Cygnus UNDERWATER Mk4 UTG Kit, without Probe

Contents: Ultrasonic Thickness Gauge - 2 rechargeable batteries - torque bar - membrane couplant - steel test block - lanyard - battery charger - calibration jumper lead - silicone grease - spare probe knurled ring & gauge 'O'rings - operation manual & carry case

Please select probe(s) from the list below:

Probes for Cygnus UNDERWATER Gauges

(All Probes are supplied as nose cone assembly with 1 m cable, and with torque bar, 20 membranes and membrane key.)

Probe S2C 2.25MHz 13mm (1/2") 1m cable for Cygnus Underwater/MINI ROV 001-9340 001-9357

Probe S3C 3.5MHz 13mm (1/2") for Cygnus Underwater UTG



Surface/Topside Display Options

Upgrade Kit A for Cygnus UW to add Topside Repeater Unit (TSR)

for Cygnus UNDERWATER Ultrasonic Thickness Gauge with Topside Connector

Contents: Cygnus Topside Repeater (TSR) display unit - 2 AA batteries - silicone sleeve - Cygnus UNDERWATER

(4-way Impulse) to TSR (Lemo 1) data connection

(Please add to order: Umbilical cable (001-0415) & specify length)

Upgrade Kit B (CygLink) for Cygnus UW to add surface computer logging

for Cygnus UNDERWATER Ultrasonic Thickness Gauge with Impulse connector Contents: CygLink software, Cygnus UNDERWATER (4-way Impulse) to Topside (9-way D RS422) data

connection, Isolated data converter (RS422/RS485 to USB)

(Please add umbilical cable (001-0415) & specify length)

Umbilical cable for DIVE / UW / ROV to Topside (per metre)

Note - The umbilical cable is NOT supplied with connectors, these are either supplied with the Topside repeater or have to be ordered seperately

General Spares

Battery for Cygnus UNDERWATER Gauges Mk3/4 (Uncharged)	001-1504
Battery Charger for Cygnus UW / IS Mk3/4 (UK Mains Plug)	001-1514
Battery Charger for Cygnus UW / IS Mk3/4 (US Mains Plug)	001-1515
Battery Charger for Cygnus UW / IS Mk3/4 (EU Mains Plug)	001-1516
Calibration Jumper Lead for Cygnus 1 IS / UW / HD UTG	001-0410
'O' Ring Pack for Cygnus UNDERWATER UTG	001-3711
Contents: 20 sets of 'O' Ring A - 40 sets of 'O' Ring B/D - 20 sets of 'O' Ring C	
Spares Kit for Cygnus UNDERWATER UTG	001-3715
Contents: 'O'-rings (3 types: 20 x A - 40 x B - 20 x C) - silicone grease - 20 polyurethane membranes & 1	
membrane key for each probe size (6mm - 13mm & 19mm) & membrane couplant	
Impulse Connector 4-Way with Flying Lead LPMIL-4-MP	001-0418
Impulse Connector 4-Way Blanking Plug IE-LPMDC-4-MP	001-0419
Connectors for umbilical UW UTG (Impulse) to TSR (Lemo)	001-0414
Connectors for umbilical Cygnus UW UTG (Impulse) to PC (9D)	001-0413
Isolated Data Converter (RS422/RS485 to USB)	001-8305
Topside Interface Cable A (Lemo socket) to B (9-way D plug)	001-0416
Topside Interface Cable B (9-way D socket) to A (Lemo plug)	001-0417
CygLink Software and Underwater Gauge Manual on USB stick	001-8210
Lanyard for Cygnus UNDERWATER UTG	001-4822
For Spare Knurled Rings & Membranes page 18	







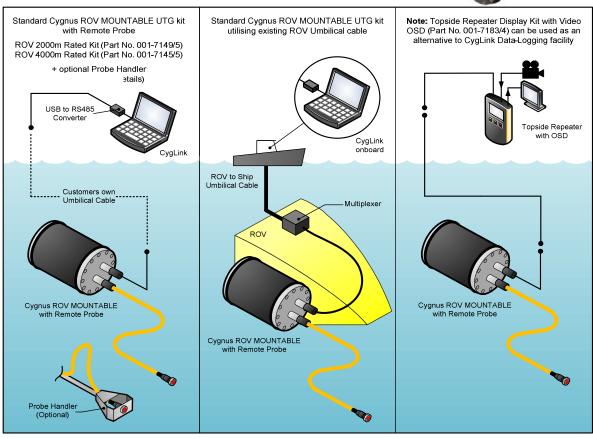


Cygnus ROV MOUNTABLE 2/4 km

Multiple Echo Ultrasonic Thickness Gauges

Available in 2000 m and 4000 m depth rated housings, these units are truly versatile and designed to operate in the harshest deepsea operating conditions. Dedicated software displays the time, date and thickness measurements on the surface which can be stored or logged. Alternatively, an optional Topside Repeater is available which has the facility to display readings remotely and overlay them onto a video signal which allows the measurements to be superimposed on the ROV camera's monitor screen.





Cygnus ROV MOUNTABLE 2000 m / 4000 m Kits

Cyanus ROV 2000m Mk5 UTG Kit, without Probe

Contents: Ultrasonic Thickness Gauge - power & data test cable - gauge (Subconn) to umbilical (flying) lead - 9way D connector - 'K3' RS422 to RS232 converter - RS232 to USB serial interface cable - Cyglink data logging software - spare 1A fuses - 3 mm allen key - silicone grease - spare 'O'-rings - ultrasonic & membrane couplant steel test block - manual & carry case

Please select probe(s) from the list below:

Cygnus ROV 4000m Mk5 UTG Kit, without Probe

Contents: Ultrasonic Thickness Gauge - power & data test cable - gauge (Subconn) to umbilical (flying) lead - 9way D connector- 'K3' RS422 to RS232 converter - RS422/RS485 to USB converter - Cyglink data logging software - spare 1A fuses - 3 mm allen key - silicone grease - spare 'O"-rings - 20 membranes - membrane key - ultrasonic & membrane couplant - steel test block - manual & carry case Please select probe(s) from the list below:

Probes for Cygnus ROV MOUNTABLE 2000 m / 4000 m Gauges

(All Probes are supplied with 5 m cable (unless otherwise customised) and with 20 membranes and membrane key.) Probe S2C 2.25MHz 13mm for Cygnus ROV 2/4km Mk5 - 5m cable

001-9393

Order Code

001-9949/5

001-9945/5

For Probes to fit Cygnus ROV Probe Handlers see next page



Cygnus ROV MOUNTABLE 2/4 km

Multiple Echo Ultrasonic Thickness Gauges

Surface/Topside Display Option for Cygnus ROV MOUNTABLE Gauges Order Code Topside Repeater (TSR) Kit with Video OSD for ROV 2000/4000m 001-7183/4 Contents: Topside Repeater Surface Display Unit with On-Screen Video Overlay Facility - BNC Video Leads and RCA Connectors - 12 VDC Power Supply (UK/US/EUR) - one set of Umbilical Connectors with Tails & Silicone Sleeve. On-Screen Video Overlay is suitable for connecting into composite video feeds (PAL or NTSC) Cygnus ROV Probe Handlers G1 Inspection ROV PROBE HANDLER without Probe 001-8351 Cygnus S1 Hull Inspection ROV PROBE HANDLER, without Probe 001-8331 Cygnus W1 Work Class ROV PROBE HANDLER, less Probe & Handle 001-8311 Fishtail Manipulator Handle 001-8316 3/4" T-Bar Manipulator Handle 001-8314 1/2" T-Bar Manipulator Handle 001-8315 Probes for Cygnus ROV Probe Handlers Probe S2C 2.25MHz 13mm long body Right Angled for W1 & ROV 2/4km 5m Cable 001-8364 Probe S2C 2.25MHz 13mm 1/2" for G1 & ROV 2000/4000m (1m cable) 001-8355 Probe S2C 2.25MHz 13mm for S1 & ROV 2000/4000m UTG 1m cable 001-8335 General Spares for Cygnus ROV MOUNTABLE 2000 m / 4000 m Gauges RS232 to USB Serial interface cable 003-0422 Isolated Data Converter RS422 to RS232 Model K3 001-8308 CygLink Topside Data Logging Software for Cygnus Mk5 ROV's 003-8213 (Non discountable) Video Cables and Adapters for Topside Repeater with OSD 001-0442 Power & Data Connector for 2000/4000m ROV with flying lead 001-0431 Data Test & Power Cable RS232/422 for 2000/4000M ROV UTG 001-0439 Umbilical cable for DIVE / UW / ROV to Topside (per metre) 001-0415 Umbilical cable connectors for ROV 2000/4000m UTG to laptop 001-7185 Umbilical cable connectors for ROV 2000/4000m UTG to TSR 001-7186

For Spare Knurled Rings & Membranes page 18

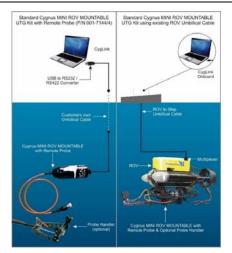
Spares Kit for Cygnus ROV Mountable 2000m/4000m UTG



001-3719

Cygnus MINI ROV MOUNTABLE

Multiple Echo Ultrasonic Thickness Gauge



The Cygnus MINI ROV Mountable ultrasonic thickness gauge (UTG) is designed to be mounted onto small, observation ROVs, with or without a manipulator facility. Dedicated software displays the time, date and thickness readings on the surface which can all be logged. Alternatively, an optional Topside Repeater (TSR) display unit is available, which has the facility to display measurements remotely and overlay them onto a video signal. Therefore measurements can be superimposed on the ROV camera's monitor screen.



Order Code

001-9944/4

Cygnus MINI ROV Mountable Kits (Pressure tested to 500 m,

Cygnus MINI ROV 500m Mk4 UTG Kit without Probe

Contents: Ultrasonic Thickness Gauge - power and data test cable - gauge (4-way 'Impulse' connector) to umbilical (flying) lead - 'Impulse' blanking plug - 9-way D connector, K3' RS422 to RS232 converter - RS232 to USB Serial interface cable - CygLink data logging software - silicone grease - spare 'O'-rings - torque bar - ultrasonic & membrane couplant - 15mm/0.5" steel test block - manual & carry case

Please select probe(s) from the list below:

SubConn) (Skids not included)

Probes for Cygnus MINI ROV Mountable Gauge

(All Probes are supplied as nose cone assembly with 1 m cable, and with torque bar, 20 membranes and membrane key.)

Probe S2C 2.25MHz 13mm (1/2") 1m cable for Cygnus Underwater/MINI ROV 001-9340



Cygnus ROV Probe Handlers and Probes

G1 Inspection ROV PROBE HANDLER without Probe

O01-8351

Probe S2C 2.25MHz 13mm (½") for G1 & MINI ROV UTG (1m cable)

Cygnus S1 Hull Inspection ROV PROBE HANDLER, without Probe

O01-8331

Probe S2C 2.25MHz 13mm (½") for S1 & MINI ROV UTG (1m cable)

Surface/Topside Display Option for Cygnus MINI ROV Mountable Gauge

Topside Repeater Kit with Video OSD for Cygnus MINI ROV UTG

O01-7153/4

Contents: Topside Repeater Surface Display Unit with On-Screen Video Overlay Facility - BNC Video Leads & RCA

Connectors - 12 VDC Power Supply (UK/US/EUR) - Lemo to 9way D Connection Lead & Silicone Sleeve. On-Screen Video Overlay is suitable for connecting into composite video feeds (PAL or NTSC)



(Non discountable)

VideoRay Fittings for Cygnus MINI ROV Mountable Gauge

Videoray Mounting Kit incl. brackets, fittings, cable
for use with Cygnus MINI ROV includes: mounting brackets - fittings & connection cable (4-way Impulse to 9-way

General Spares for Cygnus MINI ROV Mountable Gauge

O Ring Pack for Cygnus MINI/1000m /3000m ROV Mountable UTG	001-3712
Kit contents: 20 x 'O'-ring type A and 20 x 'O'-ring type B.	
RS232 to USB Serial interface cable	003-0422
Isolated Data Converter RS422 to RS232 Model K3	001-8308
CygLink Software & manual on USB for MINI ROV UTG	001-8333
Impulse Connector 4-Way Blanking Plug IE-LPMDC-4-MP	001-0419
Impulse Connector 4-Way with Flying Lead LPMIL-4-MP	001-0418
Test Cable - Impulse to 9 way 'D' Connector with DC Power	001-0432
Video Cables and Adapters for Topside Repeater with OSD	001-0442
Umbilical cable for DIVE / UW / ROV to Topside (per metre)	001-0415

Note - The umbilical cable is NOT supplied with connectors, these are either supplied with the Topside repeater or have to be ordered seperately

Mini M4 ROV test cable parts (4 way connector for signal and power) - Umbilical cable to be ord 001-7154 For Spare Knurled Rings & Membranes page 18



Cygnus Probe Leads

for use with Cygnus Ultrasonic Thickness Gauges



Leads for use with Cygnus 2 & 4 Mk5 & Cygnus 3 Mk4 Gauges	Order Code	
Probe Lead Lemo 1 - BNC 1.4m (4'6")	004-0406	
Probe Lead Single Lemo 1 - Single Lemo 00 1.35 m (4'6")	004-0401	
Probe Lead RG58 Lemo 1S to BNC 1.35m (4'6")	004-0405	
Flobe Lead NG36 Lefflo 13 to BNC 1.33fff (4.0.)	001 0100	
Leads for use with Cygnus 2+ & 4+ Mk5 Gauges	0010100	
	004-0410	
Leads for use with Cygnus 2+ & 4+ Mk5 Gauges		

Cygnus Probes

for use with Cygnus Ultrasonic

Single Crystal Probes for use with gauges in Multiple Echo Mode:

Probe Type	Band Colour	Frequency	Crystal Size ø	Crystal Size ø	Measuring Range in Steel	Probe Connectors	
S2C	Red	2.25 MHz	13mm / 0.512"	13mm / 0.512"	3 - 250mm / 0.118" - 9.842"		
S3C	Orange	3.5MHz	13mm / 0.512"	13mm / 0.512"	2 - 150mm / 0.078" - 5.905"	BNC	
S5C	Black	5.0 MHz	13mm / 0.512"	13mm / 0.512"	1 - 50mm / 0.039" - 1.968"		
S5A	Black	5.0 MHz	6mm / 0.236"	6mm / 0.236"	1 - 50mm / 0.039" - 1.968"	Lemo 00	O P

Suitable for surface temperatures up to 75° C (167° F) with standard membranes & 150° C (302° F) with Teflon membranes, please see page 19 for membrane details

Twin Crystal Probes for use in Echo-Echo & Single Echo Modes:

Probe Type	Frequency & Crystal Ø	Tip Size	Range in Steel (Single-Echo)	Range in Steel (Echo-Echo)	Typical Applications	Crystal	Probe connectors	Weight	Temperature Range	
T2C- CSL	2 MHz 12mm (0.5")	17mm (0.67")	2.5 - 350mm (0.1 - 13.8")	5 - 50mm (0.20 - 2")	□Attenuative materials	Composite	Twin Lemo	56g (1.98oz)	-10 to 70°C (14 to 158°F)	Do.
T5B- CSL	5 MHz 9.5mm (0.37 ")	12.7mm (0.5")	1.5 - 200mm (0.059 - 7.90")	4 - 50mm (0.16 - 2")	□General purpose □Surfaces with heavily corroded & pitted front/back walls	Composite	Twin Lemo 00	61 g (2.15oz)	-10 to 70°C (14 to 158°F)	100
T5A- CSW	5 MHz 6.4 mm (0.25")	9.5mm (0.37 ")	1 - 150mm (0.039 - 5.91")	3 - 50mm (0.12 - 2")	□General purpose	Composite	Wired to Lemo 00	81.7g (2.89oz) Inc cable	-10 to 70°C (14 to 158°F)	
T5B- CSW	5 MHz 9.5mm (0.37")	12.7mm (0.5")	1.5 - 200mm (0.059 - 7.9")	4 - 50mm (0.16 - 2")	□General purpose	Composite	Wired to Lemo 00	9g (3.2oz) Inc cable	0 to 60°C (32 to 140°F)	
T7A- CSWB	7.5 MHz 4.5mm (0.18")	6.5mm (0.256")	0.8 - 50mm (0.031 - 2")	3 - 25mm (0.12 - 1")	□Small diameter pipes □Thin, corroded plate	Composite	Wired to Lemo 00	68g (2.39oz) Inc cable	-10 to 70°C (14 to 158°F)	

Probe Type reference key:

	First Group (e.g. T5B)			Second Grou	p (e.g. CSW)	
First Letter Single or Twin	Middle Number Frequency in MHz	Last Letter Crystal Size Ø	First Letter	Second Letter	Third Letter	Forth Letter
S = Single T = Twin	2 = 2 MHz / 2.25 MHz 3 = 3.5 MHz 5 = 5 MHz 7 = 7.5MHz	A =<7 B = 7-11 C = 12-15 D = 19	C = Composite M = Monolithic	S = Side Entry A = Axial	L = Lemo o-00 W = Wired version U = uDot S = Sub Vis B = BNC	Blank = Standard H = High Temp D = Deep Water B = Boiler Tube X = EX

Example T5B-CSW = Twin, 5MHz, B 9.5mm Crystal - Composite, Side Entry, Wired

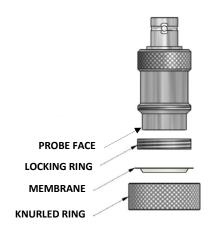


Cygnus Membranes & Knurled Rings (spares)

for use with Cygnus Single-Crystal Ultrasonic Probes

All Cygnus single-crystal probes are constructed from stainless steel and incorporate a replaceable wear membrane to protect the probe face. The performance of the probe depends on the condition of the membrane and how well it has been fitted. Please refer to your Operation Manual for guidelines on changing the protective membrane on Cygnus Probes.





Important note: the actual Membrane Diameter is larger than the "Probe Size" that it is designed to fit.

The "Probe Size" is defined by the diameter of the black part of the Probe Face. Please order membranes according to "Probe Size" as per the below table:

Standard Membranes	Order Code	Membrane Diameter	Probe Face Diameter
(Standard membranes are made of polyurethane and are suitable for surface temperatures up to 75°C (167°F). Available in packs of 20.)			
Polyurethane Membranes for 19 mm (3/4") Probes - pack of 20	001-3700	30 mm	22 mm Probe
Polyurethane Membranes for 13 mm (1/2") Probes - pack of 20	001-3701	21 mm	15 mm Probe
Polyurethane Membranes for 6 mm (1/4") Probes - Pack of 20	001-3702	14 mm	10 mm Probe
		Membrane	
Higher Temperature Membranes		Diameter	Probe Size
(III)			
(Higher temperature membranes are made of Teflon and are suitable for surface temperatures up to 150°C (302°F), with a maximum contact time of 5 seconds. Available in packs of 10.)			
Teflon Membranes for 19 mm (3/4") Probes - pack of 10	001-4875	21 mm	19 mm Probe
Teflon Membranes for 13 mm (1/2") Probes - pack of 10	001-4874	19 mm	13 mm Probe
Teflon Membranes for 6 mm (1/4") Probes - pack of 10	001-4873	13 mm	6 mm Probe
Knurled Rings and Membrane (or Locking Ring) Keys			
Knurled Ring Assembly for 19 mm (3/4") Probes	001-3705		
Knurled Ring Assembly for 13 mm (1/2") INOX Probes	001-3709	\rightarrow	
Knurled Ring Assembly for 13 mm (1/2") Probes	001-3704		
Knurled Ring Assembly for 6 mm (1/4") Probes	001-3703	membrane	
Membrane Key for 19 mm (3/4") Probes	001-2610	kev	
Membrane Key for 13 mm (1/2") Probes	001-2611	,	urled ring
Membrane Key for 6 mm (1/4") Probes	001-2612	a	ssembly

Cygnus Accessories

Membrane Couplant UCA-2M Ultrasonic Couplant Gel (100 ml) Membrane Couplant 25 ml bottle Grease for use with UNDERWATER & DIVE Gauges Silicone Grease 50g Tube O01-4861 Test Blocks Steel Test Block 15 mm not supplied with a calibration certificate) Steel Test Block 112" Test Block 112" Tot supplied with a calibration certificate) Test Block Aluminium 15 mm O01-4857 Tot supplied with a calibration certificate) Test Block Aluminium 15 mm O01-4857 Tot supplied with a calibration certificate) Test Block Steel Attention to supplied with a calibration certificate) Test Block Steel Attention to supplied with a calibration certificate) Test Block Steel Ste	Couplant	Order Code	
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Membrane Couplant 25 ml bottle Grease for use with UNDERWATER & DIVE Gauges Silicone Grease 50g Tube O01-4861 Test Blocks Steel Test Block 15 mm not supplied with a calibration certificate) Steel Test Block 12" O01-4851 not supplied with a calibration certificate) Test Block Stainless Steel 15 mm O01-4854 not supplied with a calibration certificate) Test Block Aluminium 15 mm O01-4857 not supplied with a calibration certificate) 14 Coating Test Block 15 Area Coated Test Block 16 Area Coated Test Block 17 Area Coated Test Block 18 Area Coated Test Block 19 O1-4887 19 Area Coated Test Block 10 O1-4887 10 O1-4888 10 O1		001-3708	Mombrano
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Brush &	· · · · · · · · · · · · · · · · · · ·		
Scraper	Steel Wire Brush & Scraper	500-0102	
Cyanus Manuals Scraper			Brush &
	Cygnus Manuals		Scraper

Cygnus Gauge manuals are available to download from the support section of our website, if the manual you require is not available for any reason please contact us on sales @cygnus-instruments.com and we will be happy to email it.

Paper copies are available for £8.00 plus carriage

Carry Cases & Gauge Bodies for current range

Carry cases, pouches, sleeves, slings & straps (Peli Cases Non Discountable)	Order Code
for Surface Thickness Gauges	
Soft Carry Case + foam for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG Kit	050-0105
2x Neck Strap fixings for C2 / 2+ / 4 / 4+ / 6+ Mk5 UTG	050-0116
Silicone Sleeve for Cygnus 4 GENERAL PURPOSE Mk4 or TSR	004-4835
Fabric Accessories Pouch	002-4837/4
Hard Carry Case for Cygnus 1 IS & HD UTG Kits	001-4800
Peli Carry Case for Cygnus 2 / 2+ / 4 Mk5 UTG Gauge Kit	050-4010/5
Peli Carry Case for Cygnus 4+ Mk5 Gauge Kit	050-4511/5
Peli Carry Case for Cygnus 6+ Mk5 Gauge Kit	050-6511/5
for Subsea Thickness Gauges	
Peli Carry Case for Cygnus DIVE MK2 UTG (Yellow)	001-7252/2
Peli Carry Case for Cygnus UNDERWATER UTG Kit (Yellow)	001-4813-UW
Peli Carry Case for Cygnus M5-ROV-2K/4K UTG Kit (Yellow)	001-4813-ROV
for Hatch Sure	
Ruck sack style soft carry case for Hatch Sure Mk1 Kit	006-1009
Protective Pouch with Sling for Hatch Sure Mk1 Transmitter	006-1011
Protective Pouch for Hatch Sure Mk1 Receiver	006-1014
Waist Strap for Cygnus Hatch Sure Mk1 Receiver	006-1015
Gauge Bodies (latest electronics available only)	
Cygnus 2 HANDS FREE Mk5 UTG body only	050-2011/5
Cygnus 2+ HANDS FREE Mk5 UTG body only	050-2015/5
Cygnus 4 GENERAL PURPOSE Mk5 UTG body only	050-4011/5
Cygnus 4+ GENERAL PURPOSE Mk5 UTG body only	050-4015/5
Cygnus 6+ PRO Mk5 UTG body only	050-6011/5
Cygnus 1 INTRINSICALLY SAFE CSA UTG Body only	001-7171-CSA/3
Cygnus 1 INTRINSICALLY SAFE ATEX UTG Body only	001-7171-ATEX/3
Cygnus DIVE UTG Mk2 Body only	001-7255/2
Cygnus DIVE Data Logging Mk2 UTG Body only	001-7259/2
Cygnus UNDERWATER Gauge Body only with Topside Connector	001-7179/4
Topside Repeater (Repeater Body only)	001-7181/4
Topside Repeater with Video OSD (Repeater Body only)	001-7182/4
Cygnus HEAVY DUTY UTG Body only	001-7170/4
Cygnus ROV Mountable 2000m UTG Body only	001-7189/5
Cygnus ROV Mountable 4000m UTG Body only	001-7191/5
Cygnus MINI ROV Mountable UTG Body only	001-7190/4



Cygnus FMD

Ultrasonic Flooded Member Detector

The FMD system comprises of three fundamental parts; the probe and probe handler, the subsea electronics unit and the reporting software. The innovative probe handling self aligns, ensuring correct contact with the member, even when approached from an angle. The probe contact sensor will not allow a test to be taken unless the probe is correctly aligned. The tough, rugged system returns a simple DRY / FLOODED result to the reporting software with results logged at the surface.



Standard items	Order Code	
FMD-M1 Probe / Software / Peli case Peli case containing: Probe 0.5MHz with cable and connector P/N 110-0201(STS) or 110-0233(CRE) Software & manual on USB flash drive P/N 110-0316	110-0320 110-0341	STS Option CRE Option
Electronics, select from:		
FMD-M1 Subsea Electronics Module CRE - Stainless Steel	110-0230	CRE Option
FMD-M1 Subsea Electronics Module CRE - Acetal	110-0231	CRE Option
Probe Holder, select from:		
FMD-M1 Probe Handler - Acetal	110-0050	Both STS & CRE
FMD-M1 Probe Handler - Stainless Steel	110-0051	
Probe Holder Handles, select from:		
3/4" T-Bar Manipulator Handle	001-8314	Both STS & CRE
1/2" T-Bar Manipulator Handle	001-8315	Both STS & CRE
Fishtail Manipulator Handle	001-8316	Both STS & CRE
FMD component sets, select from:		
FMD-M1 set of ROV components consisting of: RS232 to USB Serial interface cable P/N 110-0324 Patch cable 0.6m P/N 001-0451 Dual Test Lead RS485 & RS232 to 2 x 9WD M1-FMD P/N 110-0323	110-0321	Both STS & CRE
FMD-M1 set of diver components consisting of: D-Handle for Probe Handler - Stainless Steel P/N 110-0251 Surface PSU & comms connection unit P/N 110-0205 USB 2.0 Cable Male USB A to Male USB B 1.8m P/N 110-0303	110-0322	Both STS & CRE



3m test cable P/N 110-0315

Cygnus FMD Ultrasonic Flooded Member Detector

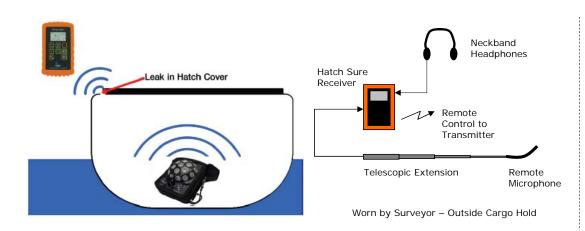
Electronics Support Cage	Order Code	
FMD-M1 Electronics Module Cable Support Cage	110-0213	STS Option
M1 FMD Electronics Module Cable Support Cage (Long for CRE)	110-0216	CRE Option
Test Piece, select from:		
FMD-M1 System Test Piece	110-0204	
FMD-M1 System Test Piece (DRAWING ONLY)	110-0206	(non-discountable)
Umbilical cable, if required select from:		
FMD-M1 120m Umbilical Cable and Reel	110-0211	(non-diseasuntable)
FIND-INT 12011 Offibilical Cable and Reel	110-0211	(non-discountable)
FMD-M1 350m + 50m Umbilical Cable and Reel	110-0212	(non-discountable)
		-
SPARES:		
FMD-M1 Probe 0.5MHz, 5m Cable and Connector	110-0201	STS Option
FMD-M1 Probe 0.5MHz, 5m Cable and Connector	110-0201	CRE Option
FMD-M1 Probe 0.5MHz, 2m Cable and Connector	110-0202	STS Option
FMD-M1 Probe 0.5MHz, 2.5m Cable and CRE Connector	110-0232	CRE Option
FND M4.0. (POUL 10 O N II 11 II	440.0005	
FMD-M1 Surface PSU and Comms Connection Unit	110-0205	
FMD-M1 Software and Manual on USB Flash Drive	110-0316	(non-discountable)
FMD-M1 Pelican Transit Case	110-0304	(non-discountable)
FMD-M1 USB 2.0 Cable Male USB A to Male USB B 1.8m FMD-M1 RS232 to USB cable assembly 1m Patch cable 0.6m for FMD & 2000M/4000M ROV UTG FMD-M1 3m test cable FMD-M1 Dual Test Lead RS485 & RS232 to 2 x 9WD Isolated Data Converter (RS422/RS485 to USB) FMD-M1 Subconn Micro Circular Adaptor FMD-M1 SPARES - Subsea Electronics Module O-ring kit (S/S) FMD-M1 SPARES - Subsea Electronics Module O-ring kit (acetal) FMD-M1 Probe Knurled Ring Nut (S/S) FMD-M1 Probe Handler Probe Body Spring	110-0303 110-0324 001-0451 110-0315 110-0323 001-8305 110-0302 110-0317 110-0318 110-0300 110-0301	
1000 Hallaid France Body Opining	. 10 0001	

Cygnus HATCH SURE

Ultrasonic Hatch Leak Detector

The Cygnus Hatch Sure is a lightweight ultrasonic system for checking the weather-tightness of cargo hatch covers. The system consists of a battery powered transmitter which produces an omni-directional sound field, uniformly distributed throughout the cargo hold. The receiver part of the system displays the sound energy level that passes through gaps in the enclosed cargo hold to enable the location of leaks in the hatch seals to be quickly and accurately identified. The system weighs only 3.8 kg and is supplied in a shower-proof, rucksack-style carry case.





Hatch Sure Transmitter

> Inside Cargo Hold

Cygnus HATCH SURE Kit

Cygnus HATCH SURE Mk2 Hatch Cover Leak Detection System

Contents: Ultrasonic receiver with protective case - neck & waist straps - 2 flexible inspection microphones - telescopic extension & cable for microphone - neck band headphones - variable output ultrasonic transmitter - with protective case & lowering harness - rechargeable batteries & charger - external 9 - 24 V DC power lead for transmitter - manual & carry case



Order Code



General Spares for Cygnus HATCH SURE

Hatch Sure Mk2 Transmitter Unit Cygnus Hatch Sure Mk2 Receiver Inspection Microphone (235 x 10mm) for Hatch Sure Mk2 Foam Cover for Cygnus Hatch Sure Mk2 Inspection Microphone Emergency Microphone Cable for Hatch Sure Mk2 Receiver Telescopic Extension for Hatch Sure Mk2	006-1010 006-1012 006-1020 006-1018 006-1016 006-1003	Inspe
Tripod for use with Hatch Sure Mk2 Tripod bracket with Velcro for Hatch Sure Mk2 Transmitter	006-1056 006-1054	-
BNC Straight Adapter for Cygnus Hatch Sure Mk2 Receiver Neckband Headphones for Hatch Sure Mk2 Batteries 6 x AA NiMH MaxE for Hatch Sure Mk2 Transmitter	006-1017 006-1004 006-1005	Teleso exten micro
(Non discountable item) Battery PP3 NiMH Max-e x 2 for Hatch Sure Mk2 Receiver (Non discountable item)	006-1006	
Battery Charger KH980 for Hatch Sure Mk2 Kit DC Power Lead for Hatch Sure Mk2 Transmitter Orange Protective Boot for Hatch Sure Mk2 Receiver	006-1007 006-1008 006-1013	



elescopic extension for nicrophone

Ultrasonic Thickness Gauge Serial Numbers

Cygnus 2 HANDS FREE

Mk1 produced up to serial no. 1309

Mk2 produced up to serial no. 2146

Mk3 produced from serial no. 2147 (Lemo 00 connector in gauge)

Mk4 produced from serial no. 4000 (Lemo 1 connector in gauge)

Mk5 produced from serial no. 20001 (C2 Lemo 1 connector in gauge & C2+ Twin Lemo 00 connector in gauge)

(There is some overlap between Mk1 and Mk2 and may need to be checked)

Cygnus 3 DATA LOGGER

Mk1 produced up to serial no. 0512

Mk2 produced up to serial no. 0862

Mk3 produced from serial no. 0863 - 0959; 0100 - 0402 (Lemo 00 connector in gauge)

Mk4 produced from serial no. 4000 (Lemo 1 connector in gauge)

(There is some overlap between Mk1 and Mk2 and may need to be checked)

Cygnus 4 GENERAL PURPOSE

Mk2 produced up to serial no. 0333

Mk3 produced from serial no. 0334 (Lemo 00 connector in gauge)

Mk4 produced from serial no. 4000 (Lemo 1 connector in gauge)

Mk5 produced from serial no. 20001 (C4 Lemo 1 connector in gauge & C4+ Twin Lemo 00 connector in gauge)

Cygnus 6+ PRO

Mk5 produced from 20001 (C6+ Twin Lemo 00 connector in gauge)

Cygnus 1 INTRINSICALLY SAFE

Mk1 produced up to serial no. 2125

Mk2 produced from serial no. 2170

Mk3 produced from serial no. 3232

(Serial nos. 2126 - 2169 may be either Mk1 or Mk 2 and will need to be checked)

Cygnus HEAVY DUTY

Mk1 produced up to serial no. 2125

Mk2 produced from serial no. 2170

Mk3 produced from serial no. 3232

Mk4 produced from serial no.4985

(Serial nos. 2126 - 2169 may be either Mk1 or Mk 2 and will need to be checked)

Cygnus DIVE

Mk1 produced up to serial no. 10421

Mk2 produced from serial no. 11001

Cygnus UNDERWATER

Mk1 produced up to serial no. 2125

Mk2 produced from serial no. 2170

Mk3 produced from serial no. 3232 $\,$

Mk4 produced from serial no.4985 (Serial nos. 2126 - 2169 may be either Mk1 or Mk 2 and will need to be checked)

Cygnus ROV MOUNTABLE

Mk2 produced from serial no. 1

Mk3 produced from serial no. 50

Mk4 produced from serial no. 148

Mk5 produced from serial no. 500

Cygnus FMD

Mk1 produced from serial no. 40016

