



**CYGNUS**  
INSTRUMENTS



**ULTRASONIC THICKNESS GAUGES & LEAK DETECTOR**

# Cygnus CATALOGUE



## Surface Thickness Gauges



Cygnus 2  
Hands Free



Cygnus 2+  
Hands Free



Cygnus 4  
General Purpose



Cygnus 4+  
General Purpose



Cygnus 6+ PRO



Cygnus 1 Intrinsically  
Safe ATEX



Cygnus  
Heavy Duty

## Subsea Thickness Gauges



Cygnus DIVE



Cygnus  
Underwater



Cygnus ROV Mountable  
2000 m / 4000 m



Cygnus MINI ROV  
Mountable

## Hatch Sure - Hatch Cover Leak Detector



Cygnus  
HATCH SURE

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# Cygnus 2 HANDS FREE

## Multiple Echo Ultrasonic Thickness Gauge

The Cygnus 2 HANDS FREE is housed in an extremely tough, rubber sealed enclosure with in-built display and extra durable buttons. Designed for use in rope access or belt mounted applications where the end-mounted organic LED display can be easily read whilst taking measurements. The Cygnus 2 is supplied in a protective carry case.



### Cygnus 2 HANDS FREE Kit

Cygnus 2 UTG Kit

Kit contents: Cygnus 2 HANDS FREE Ultrasonic Thickness Gauge (UTG), batteries (3 x AA), 15mm/0.5" steel test block, ultrasonic couplant, membrane couplant, accessory pouch, neck strap & fixings, wrist strap, mini USB to USB cable (for firmware updates), operation manual and carry case.

(The gauge has a Lemo 1 connector)

Please select your probe & lead from the lists below:

Order Code

050-2000/5



### Single Crystal Probes for Cygnus 2 HANDS FREE Gauges

(All Probes are supplied with 20 membranes & membrane key)

Probe S2C Single 2.25MHz 13mm with BNC connector

Order Code

004-9500

Probe S2D Single 2.25MHz 19mm with BNC connector

004-9502

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 2:

Probe Lead Lemo 1 - BNC 1.4m (4'6")

004-0406



Probe S5A Single 5MHz 6mm with Single Lemo 00 connector

004-9507

lead for use with the S5A probe & a Cygnus 2:

Probe Lead Single Lemo 1 - Single Lemo 00 1.35 m (4'6")

004-0401



### Right Angle Probe for Cygnus 2 HANDS FREE Gauges

(All right angle probes are supplied with 1.35 m integral probe lead with a Lemo 1 connector, 20 membranes & membrane key)

Right Angle Probe 2.25MHz 13mm (1/2") Lemo 1 (integral cable)

Order Code

001-9387

Right Angle Probe 3.5MHz 13mm (1/2") Lemo 1 (integral cable)

001-9389

Right Angle Probe 5.0MHz 6mm (1/4") Lemo 1 (integral cable)

001-9390

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

(Please add Marinised Cable length as required for all Marinised Probe orders. Cable includes a Lemo 1 connector to connect with the gauge)

Marinised Probe S2C 2.25MHz 13mm

002-9387

Marinised Probe S2D 2.25MHz 19mm

002-9388

Cable Heavy Duty Marinised Underwater priced per metre

001-0444

Cable Standard Marinised Underwater priced per metre

001-0434

(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus)

### Accessories for Cygnus 2 HANDS FREE

Neck Strap with fixings for Mk5 gauges

Order Code

050-0115

(supplied as part of gauge kit)

Hand Strap with fixing for Mk5 Gauges

050-0110

(supplied as part of gauge kit)



Belt Clip with fixing for Mk5 gauges

050-0100



Peli Carry Case for Cygnus 2, 2+ & 4 Mk5 Gauge Kit

050-4010/5

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



# Cygnus 2+ HANDS FREE

## 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

Cygnus 2+ UTG Kit

Kit contents: Cygnus 2+ HANDS FREE Ultrasonic Thickness Gauge (UTG), batteries (3 x AA), 15mm/0.5" steel test block, ultrasonic couplant, membrane couplant, accessory pouch, neck strap & fixings, wrist strap, mini USB to USB cable, operation manual and carry case.  
(The gauge has a Twin Lemo 00 connector)

Please select your probe & lead from the lists below:

Order Code

050-2500/5



### Single Crystal Probes for Cygnus 2+ HANDS FREE Gauges

(All Probes are supplied with 20 membranes & membrane key)

Probe S2C Single 2.25MHz 13mm with BNC connector

Order Code

004-9500

Probe S2D Single 2.25MHz 19mm with BNC connector

004-9502

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 2+:

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 2+:

Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")

004-0412



### Twin Crystal Probes for Cygnus 2+ HANDS FREE gauges

Probe T2C Twin 2MHz 13mm (1/2") with Twin Lemo 00 connector

Order Code

004-9550

Probe T5B Twin 5MHz 8mm (1/3") with Twin Lemo 00 connector

004-9555

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 T7A Twin 7.5MHz 5mm (3/6") integral cable Twin Lemo 00

004-9575



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

4 Step Steel Test Block, metric 2.5 - 20mm

Order Code

001-4858

4 Step Steel Test Block, imperial 0.1 - 0.75 inch

001-4859



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

Marinised Probe S2C 2.25MHz 13mm

Order Code

002-9387

Marinised Probe S2D 2.25MHz 19mm

002-9388

Marinised Probe S3C 3.5MHz 13mm

002-9389

Cable Heavy Duty Marinised Underwater priced per metre

001-0444

Cable Standard Marinised 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 Mk5 "+" models

050-0106

this adapter is required for using the above marinised probes with a "+" model Mk5 gauge



Twin Lemo 00 to Single Lemo 1 adapter

### Accessories for Cygnus 2+ HANDS FREE

Neck Strap with fixings for Mk5 gauges

Order Code

050-0115

(supplied as part of gauge kit)

Hand Strap with fixing for Mk5 Gauges

050-0110

(supplied as part of gauge kit)



Belt Clip with fixing for Mk5 gauges

050-0100



Peli Carry Case for Cygnus 2, 2+ & 4 Mk5 Gauge Kit

050-4010/5

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



# Cygnus 4 GENERAL PURPOSE

## 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 UTG kit

Kit contents: Cygnus 4 GENERAL PURPOSE Ultrasonic Thickness Gauge (UTG), batteries (3 x AA), 15mm/0.5" steel test block, ultrasonic couplant, accessory pouch, neck strap & fixings, wrist strap, mini USB to USB cable (for firmware updates), operation manual & carry case.  
(The gauge has a Lemo 1 connector)

Please select your probe & lead from the lists below:

Order Code

050-4000/5



### 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

Order Code

004-9500

Probe S2D Single 2.25MHz 19mm with BNC connector

004-9502

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 Lemo 1 - BNC 1.4m (4'6")

004-0406



Probe S5A Single 5MHz 6mm with Single Lemo 00 connector

004-9507

lead for use with the S5A probe & a Cygnus 4

Probe Lead Single Lemo 1 - Single Lemo 00 1.35 m (4'6")

004-0401



### Right Angle Probes for Cygnus 4 GENERAL PURPOSE Gauges

(All right angle probes are supplied with 1.35 m integral probe lead with a Lemo 1 connector, 20 membranes & membrane key)

Right Angle Probe 2.25MHz 13mm (1/2") Lemo 1 (integral cable)

Order Code

001-9387

Right Angle Probe 3.5MHz 13mm (1/2") Lemo 1 (integral cable)

001-9389

Right Angle Probe 5.0MHz 6mm (1/4") Lemo 1 (integral cable)

001-9390

### Marinised (underwater) Probes for Cygnus 4 GENERAL PURPOSE Gauges

(Please add Marinised Cable length as required for all Marinised Probe orders. Cable includes a Lemo 1 connector to connect with the gauge)

Marinised Probe S2C 2.25MHz 13mm

Order Code

002-9387

Marinised Probe S2D 2.25MHz 19mm

002-9388

Cable Heavy Duty Marinised Underwater priced per metre

001-0444

Cable Standard Marinised Underwater priced per metre

001-0434

(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus)

### Accessories for Cygnus 4 GENERAL PURPOSE

Neck Strap with fixings for Mk5 gauges

Order Code

050-0115

(supplied as part of gauge kit)

Hand Strap with fixing for Mk5 Gauges

050-0110

Belt Clip with fixing for Mk5 gauges

050-0100

Peli Carry Case for Cygnus 2, 2+ & 4 Mk5 Gauge Kit

050-4010/5



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



# Cygnus 4+ GENERAL PURPOSE

## 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

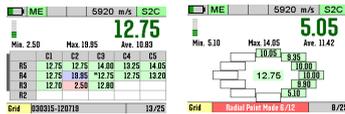
Cygnus 4+ UTG Kit

Kit contents: Cygnus 4+ GENERAL PURPOSE Ultrasonic Thickness Gauge (UTG) with sequential data logging as standard, batteries (3 x AA), 15mm/0.5" steel test block, ultrasonic couplant, membrane couplant, accessory pouch, neck strap & fixings, wrist strap, SD card, CygLink software, USB data cable, operation manual and carry case. (The gauge has a Twin Lemo 00 connector)

Please select your probe & lead from the lists below:

Data Logging upgrade for Cygnus 4+

adds grid logging & radial points facility



Order Code

050-4500/5



### 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 S2D Single 2.25MHz 19mm with BNC connector                 | 004-9502 |
| 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 |



|   |          |
|---|----------|
| 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 |



### Twin Crystal Probes for Cygnus 4+ GENERAL PURPOSE gauges

|  |          |
|--|----------|
| Probe T2C Twin 2MHz 13mm (1/2") with Twin Lemo 00 connector    | 004-9550 |
| Probe T5B Twin 5MHz 8mm (1/3") with Twin Lemo 00 connector     | 004-9555 |
| 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 T7A Twin 7.5MHz 5mm (3/6") integral cable Twin Lemo 00 | 004-9575 |
|--|----------|



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

|   |          |
|---|----------|
| 4 Step Steel Test Block, metric 2.5 - 20mm        | 001-4858 |
| 4 Step Steel Test Block, 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 Probe S2D 2.25MHz 19mm  | 002-9388 |
| Marinised Probe S3C 3.5MHz 13mm   | 002-9389 |
| Cable Heavy Duty Marinised Underwater priced per metre                                    | 001-0444 |
| Cable Standard Marinised 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 Mk5 "+" models                                  | 050-0106 |
| this adapter is required for using the above marinised probes with a "+" model Mk5 gauge  |          |



### Accessories for Cygnus 4+ GENERAL PURPOSE

|   |            |
|---|------------|
| Mini USB cable for data transfer<br>(supplied as part of gauge kit)       | 050-0120   |
| Neck Strap with fixings for Mk5 gauges<br>(supplied as part of gauge kit) | 050-0115   |
| Hand Strap with fixing for Mk5 Gauges<br>(supplied as part of gauge kit)  | 050-0110   |
| Belt Clip with fixing for Mk5 gauges                                      | 050-0100   |
| Peli Carry Case for Cygnus 4+ Mk5 Gauge Kit                               | 050-4511/5 |



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



# Cygnus 6+ PRO

## 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 connected to a computer either via the USB cable supplied or Bluetooth (please note the Bluetooth dongle is sold separately)



### Cygnus 6+ PRO Kit

Cygnus 6+ Kit

*Kit contents: Cygnus 6+ GENERAL PURPOSE Ultrasonic Thickness Gauge (UTG), batteries (3 x AA), 15mm/0.5" steel test block, ultrasonic couplant, membrane couplant, accessory pouch, neck strap & fixings, wrist strap, SD card, CygLink software, USB data cable, operation manual and carry case.*  
(The gauge has a Twin Lemo 00 connector)

**Please select your probe & lead from the lists below:**

Order Code

050-6500/5

### Probes for Cygnus 6+ PRO Gauges

*(All Probes are supplied with 20 membranes & membrane key)*

| Probe   | Order Code |
|---|------------|
| Probe S2C Single 2.25MHz 13mm with BNC connector                            | 004-9500   |
| Probe S2D Single 2.25MHz 19mm with BNC connector                            | 004-9502   |
| Probe S3C Single 3.5MHz 13mm with BNC connector                             | 004-9504   |
| Probe S5C Single 5MHz 13mm with BNC connector                               | 004-9508   |
| <b>lead for use with the above single crystal probes &amp; a Cygnus 6+:</b> |            |
| 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 |
| <b>lead for use with the S5A probe &amp; a Cygnus 6+:</b> |          |
| Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")     | 004-0412 |



### Twin Crystal Probes for Cygnus 6+ PRO gauges

| Probe   | Order Code |
|---|------------|
| Probe T2C Twin 2MHz 13mm (1/2") with Twin Lemo 00 connector               | 004-9550   |
| Probe T5B Twin 5MHz 8mm (1/3") with Twin Lemo 00 connector                | 004-9555   |
| <b>lead for use with the above twin crystal probes &amp; a Cygnus 6+:</b> |            |
| Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")                      | 004-0411   |



|  |          |
|--|----------|
| Probe T7A Twin 7.5MHz 5mm (3/6") integral cable Twin Lemo 00 | 004-9575 |
|--|----------|



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

| Item  | Order Code |
|---|------------|
| 4 Step Steel Test Block, metric 2.5 - 20mm        | 001-4858   |
| 4 Step Steel Test Block, imperial 0.1 - 0.75 inch | 001-4859   |



### Marinised (underwater) Probes for Cygnus 6+ HANDS FREE Gauges

| Item   | Order Code |
|--|------------|
| Marinised Probe S2C 2.25MHz 13mm   | 002-9387   |
| Marinised Probe S2D 2.25MHz 19mm   | 002-9388   |
| Marinised Probe S3C 3.5MHz 13mm  | 002-9389   |
| Cable Standard Marinised Underwater priced per metre   | 001-0434   |
| Cable Heavy Duty Marinised Underwater priced per metre   | 001-0444   |
| <i>(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus)</i> |            |
| Twin Lemo 00 to Single Lemo 1 adapter for Mk5 "+" models   | 050-0106   |
| <i>this adapter is required for using the above marinised probes with a "+" model Mk5 gauge</i>  |            |

### Accessories for Cygnus 6+ PRO

| Item   | Order Code |
|--|------------|
| Mini USB cable for data transfer                                     | 050-0120   |
| <i>(supplied as part of gauge kit)</i>                               |            |
| Bluetooth Adapter V4.0 USB Belkin                                    | 050-0125   |
| <i>(not included in gauge kit - needs to be ordered if required)</i> |            |
| Neck Strap with fixings for Mk5 gauges                               | 050-0115   |
| <i>(supplied as part of gauge kit)</i>                               |            |
| Hand Strap with fixing for Mk5 Gauges                                | 050-0110   |
| <i>(supplied as part of gauge kit)</i>                               |            |
| Belt Clip with fixing for Mk5 gauges                                 | 050-0100   |
| Peli Carry Case for Cygnus 6+ Mk5 Gauge Kit                          | 050-6511/5 |



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

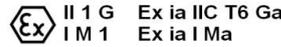


# Cygnus 1 INTRINSICALLY SAFE ATEX

## Multiple Echo Ultrasonic Thickness Gauge

A tough, ruggedised Ultrasonic Thickness Gauge (UTG) designed for safe use in potentially explosive environments. The Cygnus 1 INTRINSICALLY SAFE ATEX uses our Multiple Echo technology to take thickness measurements through protective coatings. It is supplied ready to use as a complete kit in a protective carry case with 2 rechargeable batteries.

ATEX Certification:  
Group II Category 1G Ex ia IIC T6 Ga (Tamb = 0C to 45C)  
Group I Category M1 Ex ia I Ma  
Certificate No: BAS00ATEX1108



Nato Stock No: 5220-99-234-4651

### Cygnus 1 INTRINSICALLY SAFE ATEX Kits

Cygnus 1 INTRINSICALLY SAFE ATEX Kit with 2.25MHz 13mm Probe

Order Code

001-7121/3

*Kit contents: Cygnus 1 INTRINSICALLY SAFE ATEX Certified Mk 3 Ultrasonic Thickness Gauge (UTG), 2 rechargeable batteries, S2C Probe 2.25MHz 13 mm (1/2") with nose cone, torque bar, 20 membranes, membrane key, membrane couplant, steel test block, ultrasonic couplant, battery charger, calibration jumper lead, trim tool, hex key, spare 'O'-rings, operation manual and carry case.*

Cygnus 1 INTRINSICALLY SAFE ATEX Kit, without Probe

001-9921/3

*Kit contents: As above but without probe. Please select probe from list below*



### Probes for Cygnus 1 INTRINSICALLY SAFE (IS) ATEX Gauges

Order Code

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

Probe S2C 2.25 MHz 13 mm (1/2") for Cygnus 1 IS ATEX Mk 3

001-9412-ATEX

Probe S2D 2.25 MHz 19 mm (3/4") for Cygnus 1 IS ATEX Mk 3

001-9411-ATEX

Probe S3C 3.5 MHz 13 mm (1/2") for Cygnus 1 IS ATEX Mk 3

001-9413-ATEX

Probe S5C 5.0 MHz 13 mm (1/2") for Cygnus 1 IS ATEX Mk 3

001-9344-ATEX

Probe S5A 5.0 MHz 6 mm (1/4") for Cygnus 1 IS ATEX Mk 3

001-9345-ATEX



### Right Angle Probes for Cygnus 1 INTRINSICALLY SAFE (IS) ATEX Gauges

Order Code

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

Right Angle Probe 2.25 MHz 13 mm for Cygnus 1 IS ATEX Mk 3

001-9403

Right Angle Probe 3.5 MHz 13 mm for Cygnus 1 IS ATEX Mk 3

001-9405

Right Angle Probe 5.0 MHz 6 mm for Cygnus 1 IS ATEX Mk 3

001-9406

Right Angle Probe 5.0 MHz 13 mm for Cygnus 1 IS ATEX Mk 3

001-9407



### General Spares for Cygnus 1 INTRINSICALLY SAFE (IS) ATEX

Order Code

Battery for Cygnus 1 INTRINSICALLY SAFE ATEX Gauge Mk 3

001-1505-ATEX

*T6 Rated NiMH Battery for ATEX Gauges from Serial Number 3232. Supplied Uncharged.*

Battery Charger for Cygnus UW / IS Mk 3/4 (UK Mains Plug)

001-1514

Battery Charger for Cygnus UW / IS Mk 3/4 (US Mains Plug)

001-1515

Battery Charger for Cygnus UW / IS Mk 3/4 (EU Mains Plug)

001-1516

Calibration Jumper Lead for Cygnus 1 IS, UW & HD Gauges

001-0410

Calibration Trim Tool

001-2600

Hex Key for Cygnus 1 INTRINSICALLY SAFE Gauge

001-2619

Nose Cone Torque Bar

001-2620

'O' Ring Pack for Cygnus 1 IS/ROV Gauges Mk 3/4

001-3713

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

*For Probes for Cygnus 1 INTRINSICALLY SAFE Mk 2 or Mk 1 (or below Serial No. 3232) see Probes for Cygnus Supported Products 20-21*

*For Batteries & Chargers for Cygnus 1 INTRINSICALLY SAFE Mk 2 or Mk 1 (or below Serial No. 3232) see Spare Parts for Cygnus Products page 21-22*



# Cygnus HEAVY DUTY

## Multiple Echo Ultrasonic Thickness Gauge

A tough, ruggedised Ultrasonic Thickness Gauge (UTG) using Cygnus Multiple Echo technology, designed for use in demanding environments. The mechanical design of the Cygnus Heavy Duty has been proved and improved over nearly 30 years. This hardy and reliable tool is supplied ready to use as a complete kit in a protective carry case.



Nato Stock No: 5220-99-075-8576

### **Cygnus HEAVY DUTY Kits**

Cygnus HEAVY DUTY UTG Kit with 2.25MHz 13mm Probe

*Kit contents: Cygnus HEAVY DUTY Ultrasonic Thickness Gauge (UTG), battery pack, S2C Probe 2.25MHz 13 mm (1/2") with nose cone, torque bar, 20 membranes, membrane key, membrane couplant, steel test block, ultrasonic couplant, calibration jumper lead, spare 'O'-rings, operation manual and carry case.*

Cygnus HEAVY DUTY UTG Kit, without Probe

*Kit contents: As above but without probe. Please select probe from list below*

Order Code

001-7111/4

001-9911/4



### **Probes for Cygnus HEAVY DUTY (HD) Gauges**

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

Probe S2C 2.25 MHz 13 mm (1/2") for Cygnus HEAVY DUTY

Probe S2D 2.25 MHz 19 mm (3/4") for Cygnus HEAVY DUTY

Probe S3C 3.5 MHz 13 mm (1/2") for Cygnus HEAVY DUTY

Probe S5C 5.0 MHz 13 mm (1/2") for Cygnus HEAVY DUTY

Probe S5A 5.0 MHz 6 mm (1/4") for Cygnus HEAVY DUTY

Order Code

001-9330

001-9332

001-9355

001-9334

001-9336



### **Right Angle Probes for Cygnus HEAVY DUTY (HD) Gauges**

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

Right Angle Probe 2.25 MHz 13 mm for Cygnus HEAVY DUTY

Right Angle Probe 3.5 MHz 13 mm for Cygnus HEAVY DUTY

Right Angle Probe 5.0 MHz 13 mm for Cygnus HEAVY DUTY

Right Angle Probe 5.0 MHz 6 mm for Cygnus HEAVY DUTY

Order Code

001-9367

001-9369

001-9371

001-9370



### **General Spares for Cygnus HEAVY DUTY (HD)**

Battery Insert Plate (3 x AA) for Cygnus HEAVY DUTY Mk 3/4

Calibration Jumper Lead for Cygnus 1 IS, UW & HD Gauges

Calibration Trim Tool

Nose Cone Torque Bar

'O' Ring Pack for Cygnus HD Gauge

Order Code

001-3723

001-0410

001-2600

001-2620

001-3718



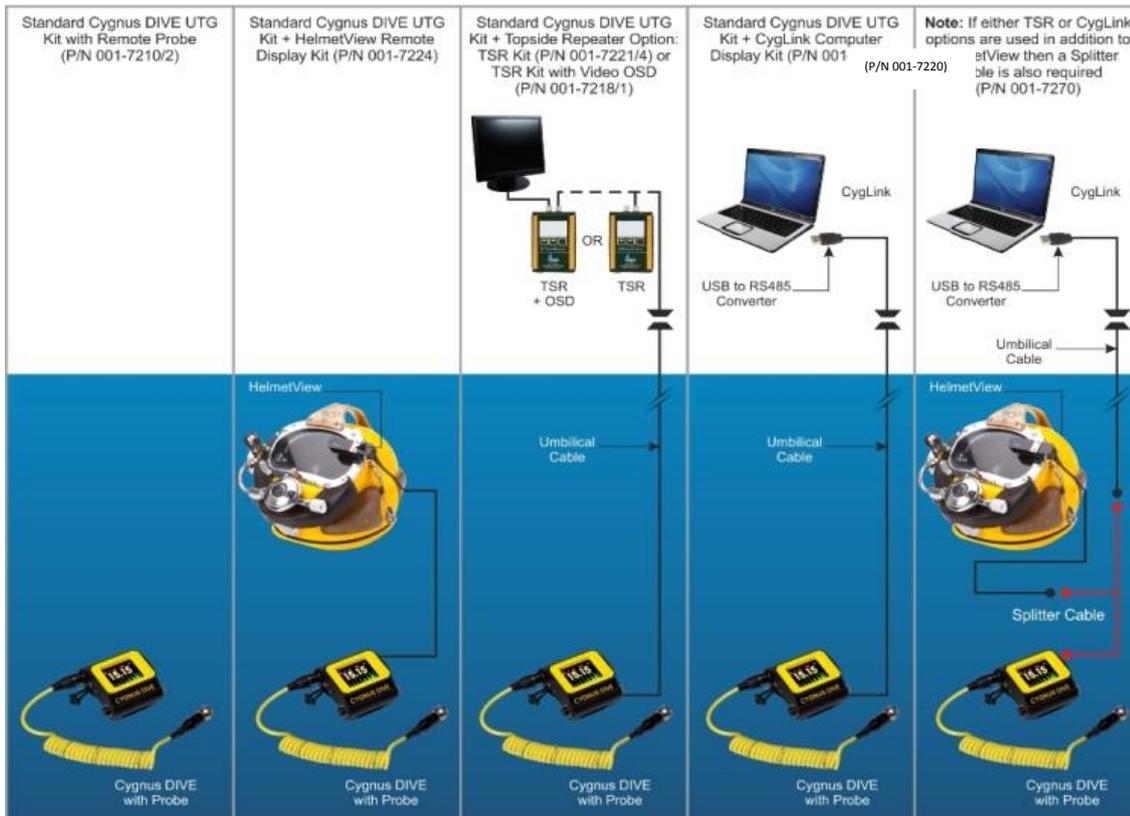
For Spare Leads see page 17 & for Spare Knurled Rings & Membranes page 18



# Cygnus DIVE

## Wrist-Mountable Underwater Thickness Gauge

Designed for the professional diver 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 AMOLED display shows the thickness measurements in big numbers along with a live A-scan for verification. Power is supplied by a 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 extremely 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 helmet-mounted remote display of thickness measurements.



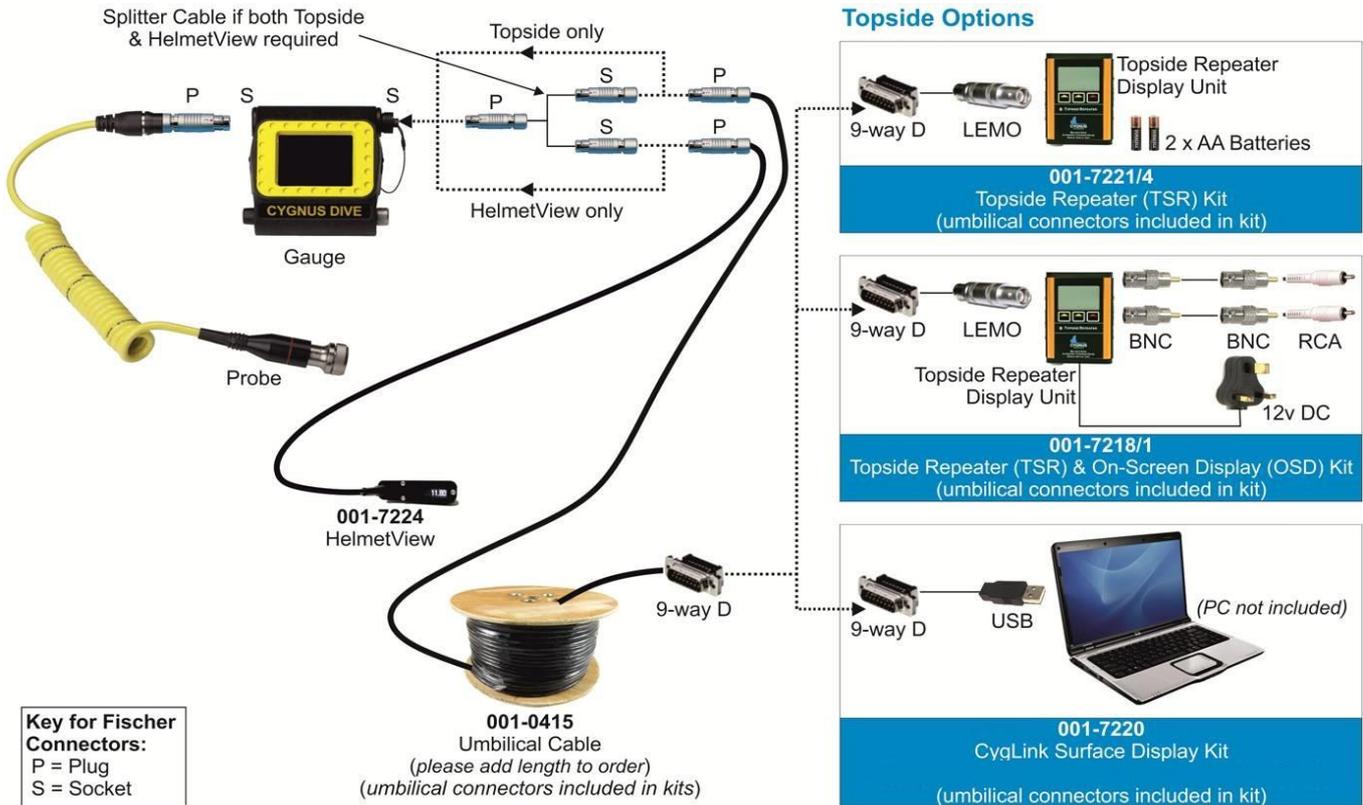
### Cygnus DIVE Kits (see next page for Topside Kit options)

|   | Order Code |
|---|------------|
| Cygnus DIVE Mk2 UTG Kit with S2C 2.25 MHz 13 mm Probe<br><i>Kit contents: Cygnus DIVE Ultrasonic Thickness Gauge (UTG), now with bright AMOLED Display, Probe S2C 2.25MHz 13 mm (1/2"), 2 rechargeable batteries, battery charger, screen protector, silicone grease, lanyard, spare membranes, membrane key, membrane couplant, steel test block, ultrasonic couplant, operation manual and carry case.</i>  | 001-7210/2 |
| Cygnus DIVE Mk2 UTG Kit, without Probe<br><i>Kit contents: As above but without probe. Please select probe from list below</i>  | 001-7200/2 |
| Cygnus Data Logging DIVE Mk2 UTG Kit with S2C Probe<br><i>Kit contents: Cygnus Data Logging DIVE Ultrasonic Thickness Gauge (UTG), now with bright AMOLED display, Probe S2C 2.25MHz 13 mm (1/2"), Cygnus CygLink software on USB flash drive, Cygnus DIVE Data Logger (Fischer) direct to PC (USB) lead, Software enabler key (on USB flash drive), 2 rechargeable batteries, battery charger, screen protector, silicone grease, lanyard, spare membranes, membrane key, membrane couplant, steel test block, ultrasonic couplant, operation manual and carry case.</i> | 001-7211/2 |
| Cygnus Data Logging DIVE Mk2 UTG Kit, without Probe<br><i>Kit contents: As above but without probe. Please select probe from list below</i>   | 001-7201/2 |



# 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

001-7221/4

Upgrade Kit for Cygnus DIVE, to add Topside Repeater (TSR) Display Unit

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)

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 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

001-7220

Upgrade Kit for Cygnus DIVE, to add CygLink Surface Computer Display with Computer Data Logging Facility

Kit contents: Umbilical (9-way D) to computer (USB) link lead & Cygnus DIVE (Fischer) to (9-way D) topside umbilical connectors  
CygLink software supplied on a USB

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

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

001-0415

supplied with Umbilical (9-way D) to PC (USB) Link Lead for CygLink



# Cygnus DIVE

## Wrist-Mountable Underwater Thickness Gauge

---

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

Order Code

*(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 2.25 MHz 13 mm (1/2") for DIVE

001-7230

Probe S3C Single Crystal 3.5 MHz 13 mm (1/2") for DIVE

001-7231

Probe S5C Single Crystal Probe 5.0 MHz 13 mm (1/2") for DIVE

001-7232

Probe S5A Single Crystal 5.0 MHz 6 mm (1/4") for DIVE

001-7233



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### **Twin Crystal Probes for Cygnus DIVE Gauge (Single Echo & Echo-Echo Modes)**

Order Code

Probe T5B Twin Crystal 5 MHz 8 mm for Cygnus DIVE Mk2

001-7235

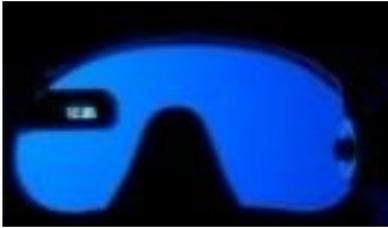
Probe T2C Twin Crystal 2 MHz 13 mm for Cygnus DIVE Mk2

001-7236

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### **HelmetView for Cygnus DIVE Gauge**

Order Code



HelmetView MK2 Remote Display Kit

001-7224/2

*An OLED display, integrated link lead to Cygnus DIVE (Fischer) and 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) and an umbilical cable (Fischer) for Topside display options to be connected to the Cygnus DIVE gauge (Fischer).*

---

### **General Spares for Cygnus DIVE**

Order Code

CygLink Data Logging software upgrade for Cygnus DIVE

001-7219/2

*Upgrade Kit for Cygnus DIVE 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 Enabler 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

Video Cables and Adapters for Topside Repeater with OSD

001-0442

Cygnus DIVE (Fischer)-(9-way D) topside umbilical connectors

001-7260

Cygnus DIVE Battery

001-7250

Battery Charger for Cygnus DIVE (UK Mains Plug)

001-7251-UK

Battery Charger for Cygnus DIVE (EU Mains Plug)

001-7251-EU

Battery Charger for Cygnus DIVE (US Mains Plug)

001-7251-US

Screen Protector for Cygnus DIVE

001-7263

Replacement Lanyard for Cygnus DIVE

001-7257

Operation Manual for Cygnus DIVE on USB Flash Drive

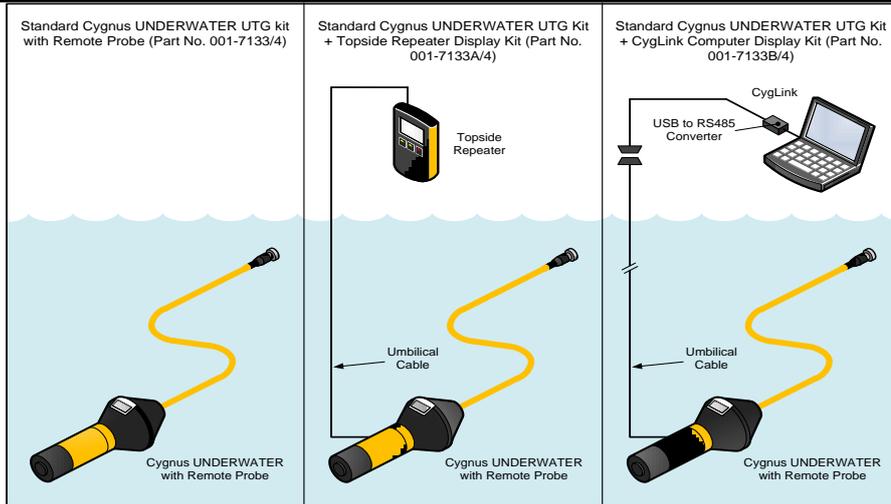
001-7256

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



# 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.

### Cygnus UNDERWATER Kits

Cygnus UNDERWATER UTG Upgradeable Kit inc 2.25MHz 13mm Probe

Kit contents: Cygnus UNDERWATER Ultrasonic Thickness Gauge (UTG), 2 rechargeable batteries, S2C Probe 2.25 MHz 13 mm (1/2"), torque bar, 20 membranes, membrane key, membrane couplant, steel test block, ultrasonic couplant, lanyard, battery charger, calibration jumper lead, silicone (Molykote) grease, spare 'O'-rings, operation manual and carry case.

Cygnus UNDERWATER UTG Upgradeable Kit, without Probe

Kit contents: As above but without probe. Please select probe from 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") for Cygnus Underwater/MINI ROV

Probe S2D 2.25MHz 19mm(3/4") for Cygnus Underwater

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

Probe S5C 5.0MHz 13mm(1/2") for Cygnus Underwater

Probe S5A 5.0MHz 6mm(1/4") for Cygnus Underwater

Fixed Head Probe 2.25MHz 13mm (1/2") for Cygnus Underwater

### Surface/Topside Display Options for Cygnus UNDERWATER Gauge

Upgrade Kit 'A' (TSR) for Cygnus UNDERWATER

Kit 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: Cygnus UNDERWATER Umbilical cable (001-0415) and specify length.)

Upgrade Kit 'B' (CygLink) for Cygnus UNDERWATER

Kit 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 to order: Cygnus UNDERWATER Umbilical cable (001-0415) and specify length.)

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

supplied with Umbilical (9-way D) to PC (USB) Link Lead for CygLink

### General Spares for Cygnus UNDERWATER (UW)

Battery for Cygnus UNDERWATER Gauges Mk 3/4

Battery Charger for Cygnus UW / IS Mk 3/4 (UK Mains Plug)

Battery Charger for Cygnus UW / IS Mk 3/4 (US Mains Plug)

Battery Charger for Cygnus UW / IS Mk 3/4 (EU Mains Plug)

Calibration Jumper Lead for Cygnus 1 IS, UW & HD Gauges

'O' Ring Pack for Cygnus UNDERWATER Gauge

Kit contents: 20 x 'O'-ring type A, 40 x 'O'-ring type B and 20 x 'O'-ring type C.

Spares Kit for Cygnus UNDERWATER Gauge

Kit contents: 'O'-rings (3 types: 20 x A; 40 x B; 20 x C), silicone (Molykote) grease, 20 polyurethane membranes & 1 membrane key for each probe size (6 mm, 13 mm & 19 mm) and membrane couplant.

Impulse Connector 4-Way with Flying Lead

Impulse Connector 4-Way Blanking Plug

Isolated Data Converter (RS422/RS485 to USB)

CygLink Software and Underwater Gauge Manual on USB stick

Topside Interface Cable A (Lemo socket) to B (9-way D plug)

Topside Interface Cable B (9-way D socket) to A (Lemo plug)

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

Order Code

001-7133/4



001-9933/4

Order Code

001-9340

001-9341

001-9357

001-9342

001-9343

001-9320



Fixed Head Probe

Order Code

001-7133A



001-7133B



001-0415

Order Code

001-1504

001-1514

001-1515

001-1516

001-0410

001-3711

001-3715

001-0418

001-0419

001-8305

001-8210

001-0416

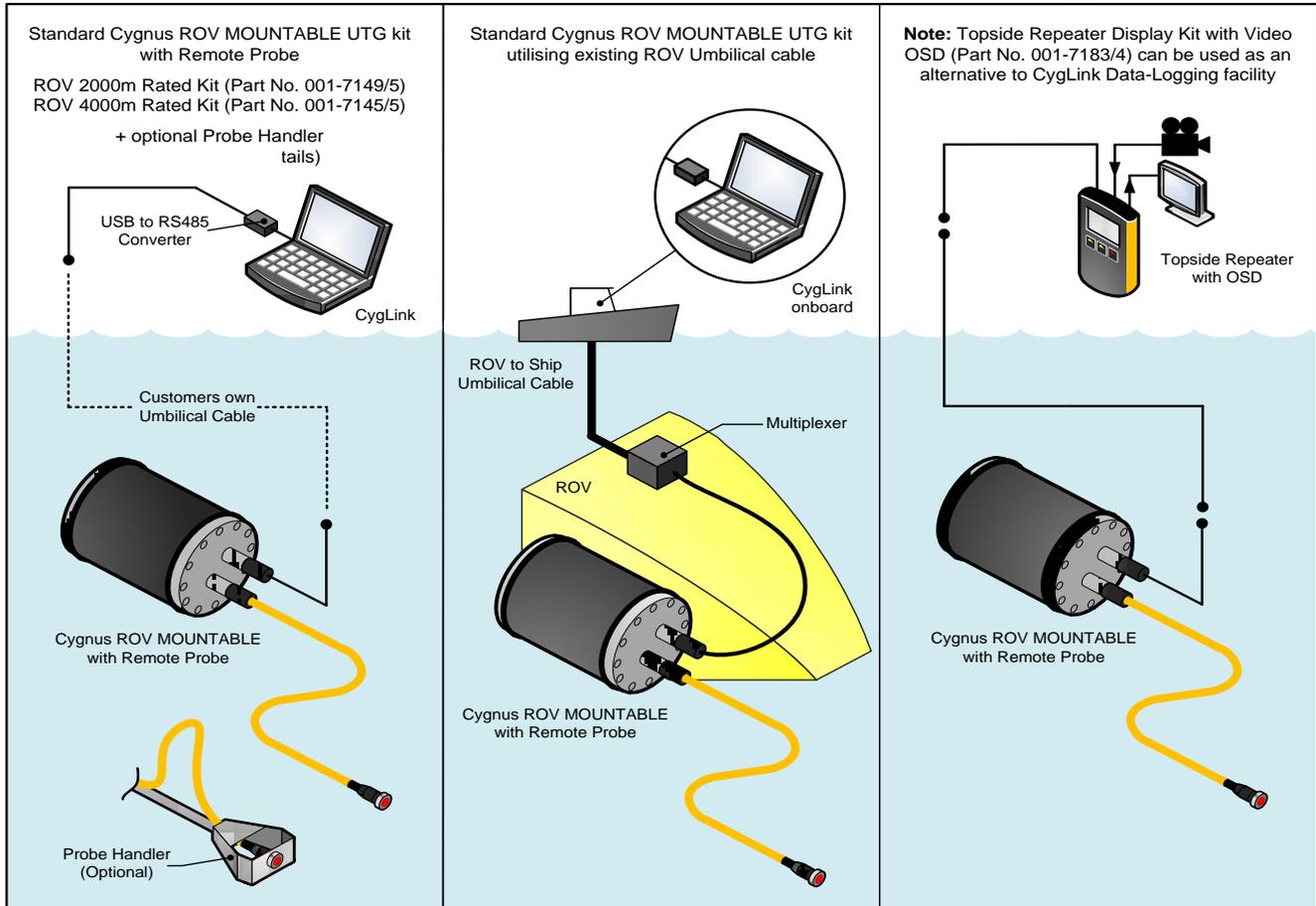
001-0417



# 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 Topsiside 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

Cygnus M5-ROV-2K 2000m ROV UTG Kit with 2.25MHz 13mm Probe

Order Code

001-7149/5

*Kit contents: Cygnus ROV MOUNTABLE 2000 m Ultrasonic Thickness Gauge (UTG), S2C Probe 2.25 MHz 13 mm (1/2") with 5 m cable, power and data test cable, gauge (Subconn) to umbilical (flying) lead, 9-way 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, 20 membranes, membrane key, membrane couplant, steel test block, ultrasonic couplant, operation manual and carry case.*

Cygnus M5-ROV-2K 2000m ROV UTG Kit, without Probe

001-9949/5

*Kit contents: As above but without probe. Please select probe from list below*

Cygnus M5-ROV-4K 4000m ROV UTG Kit with 2.25MHz 13mm Probe

001-7145/5

*Kit contents: Cygnus ROV MOUNTABLE 4000 m Ultrasonic Thickness Gauge (UTG), S2C Probe 2.25 MHz 13 mm (1/2") with 5 m cable, power and data test cable, gauge (Subconn) to umbilical (flying) lead, 9-way 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, membrane couplant, steel test block, ultrasonic couplant, operation manual and carry case.*

Cygnus M5-ROV-4K 4000m ROV UTG Kit, without Probe

001-9945/5

*Kit contents: As above but without probe. Please select probe from list below*



### Probes for Cygnus ROV MOUNTABLE 2000 m / 4000 m Gauges

Order Code

*(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 (5m cable)

001-9393

Probe S2C 2.25MHz 13mm for Cygnus ROV 2/4km (cust length)

001-9394

Probe S2D 2.25MHz 19mm for Cygnus ROV 2/4km (5m cable)

001-9395



*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

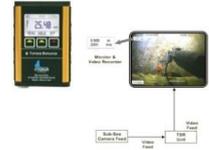
Order Code

TOPSIDE REPEATER Kit with Video OSD for Cygnus ROV 2/4km

001-7183/4

Kit contents: Cygnus Topside Repeater (TSR) display unit with on-screen display facility, Silicone sleeve, TSR (Lemo) to Umbilical (flying tails) link lead, 2 BNC video leads with RCA phono connectors, DC power supply 12 V with universal plug-in.

(On-screen video overlay is suitable for connecting into composite video feeds, PAL or NTSC.)



### Cygnus ROV Probe Handlers

Order Code

Cygnus 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 for Cygnus W1 PROBE HANDLER

001-8316

3/4" T-Bar Manipulator Handle for Cygnus W1 PROBE HANDLER

001-8314

1/2" T-Bar Manipulator Handle for Cygnus W1 PROBE HANDLER

001-8315



### Probes for Cygnus ROV Probe Handlers

Order Code

Probe S2C 2.25MHz 13mm for W1 & ROV MOUNTABLE 2/4km 5m Cable

001-8318

Probe S2C 2.25MHz 13mm for G1 & ROV MOUNTABLE 2/4km 1m Cable

001-8355

Probe S2C 2.25MHz 13mm for S1 & ROV MOUNTABLE 2/4km 1m Cable

001-8335

### General Spares for Cygnus ROV MOUNTABLE 2000 m / 4000 m Gauges

Order Code

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 M5-ROV

003-8213

Video Cables and Adapters for Topside Repeater with OSD

001-0442

Power & Data Connector for M5-ROV with flying lead

001-0431

Data Test & Power Cable RS232/422 for use with M5-ROV's

001-0439

Umbilical cable connectors for Mk5 ROV Mountable

001-7185

Spares kit for Cygnus ROV Mountable 2000m/4000m Gauges

001-3719



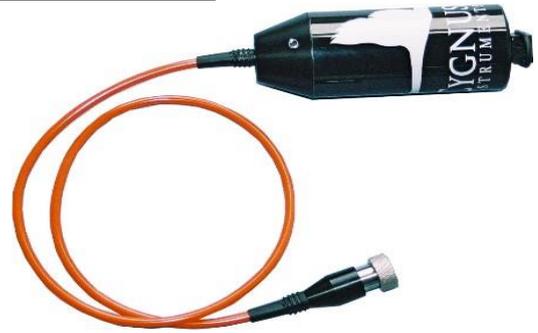
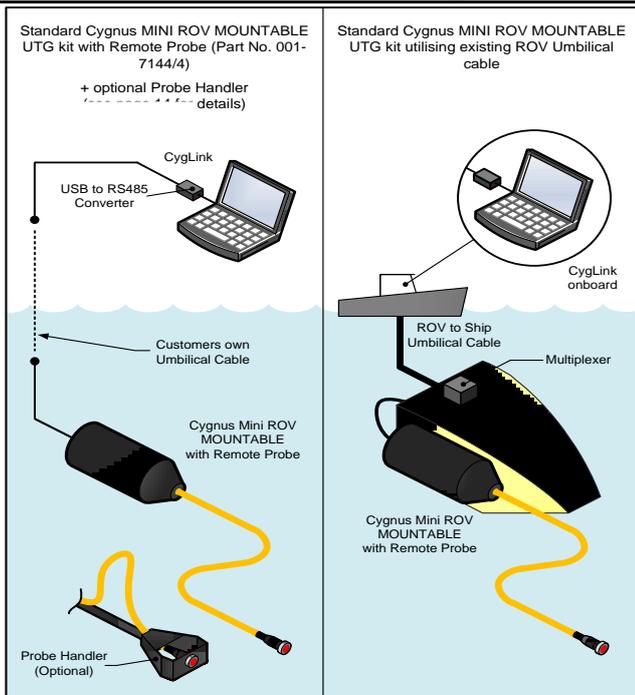
For Spare Leads see page 17 & for Spare Knurled Rings & Membranes page 18

For Probes for Cygnus ROV Mountable 1000 m / 3000 m Gauges see Probes for Cygnus Supported Products page 20-21



# 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.

### **Cygnus MINI ROV Mountable Kits (Pressure tested to 500 m)**

Cygnus MINI 500m ROV UTG Kit with 2.25 MHz 13 mm Probe

*Kit contents: Cygnus MINI ROV Mountable Ultrasonic Thickness Gauge (UTG), S2C Probe 2.25 MHz 13 mm (1/2") with 1 m cable, 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, 20 membranes, membrane key, membrane couplant, steel test block, ultrasonic couplant, operation manual and carry case.*

Cygnus MINI ROV 500m UTG Kit, without Probe

*Kit contents: As above but without probe. Please select probe from list below*

### **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") for Cygnus Underwater/MINI ROV

Probe S2D 2.25MHz 19mm for Cygnus MINI ROV MOUNTABLE

### **Cygnus ROV Probe Handlers and Probes**

Cygnus G1 Inspection ROV PROBE HANDLER, without Probe

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

Cygnus S1 Hull Inspection ROV PROBE HANDLER, without Probe

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

### **Surface/Topside Display Option for Cygnus MINI ROV Mountable Gauge**

TOPSIDE REPEATER Kit with Video OSD for Cygnus MINI ROV

*Kit contents: Cygnus Topside Repeater (TSR) display unit with on-screen display facility, Silicone sleeve, Umbilical (9-way D) to TSR (Lemo) link lead, 2 BNC video leads with RCA phono connectors, DC power supply 12 V with universal plug-in.*

*(On-screen video overlay is suitable for connecting into composite video feeds, PAL or NTSC.)*

### **VideoRay Fittings for Cygnus MINI ROV Mountable Gauge**

Videoray Mounting Brackets for Cygnus MINI ROV incl fittings

Videoray Connection Cable (4-way Impulse to 9-way SubConn)

### **General Spares for Cygnus MINI ROV Mountable Gauge**

'O' Ring Pack for Cygnus MINI /1km /3km ROV Mountable Gauges

*Kit contents: 20 x 'O'-ring type A and 20 x 'O'-ring type B.*

RS232 to USB Serial interface cable

Isolated Data Converter RS422 to RS232 Model 'K3'

CygLink Software & manual on USB for MINI ROV

Impulse Connector 4-Way Blanking Plug

Video Cables and Adapters for Topside Repeater with OSD

Umbilical cable connectors for MINI ROV Mountable Gauge

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

Order Code

001-7144/4

001-9944/4

Order Code

001-9340

003-9410

Order Code

001-8351

001-8354

001-8331

001-8334

Order Code

001-7153/4

Order Code

001-8307

001-0433

Order Code

001-3712

003-0422

001-8308

001-8333

001-0419

001-0442

001-7154



# Cygnus Probes

for use with Cygnus Ultrasonic Thickness Gauges

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

| Probe Type | Band Colour | Frequency | Crystal Size $\varnothing$ | Measuring Range in Steel    | Probe Connectors |   |
|------------|-------------|-----------|----------------------------|-----------------------------|------------------|---|
| S2C        | Red         | 2.25 MHz  | 13mm / 0.512"              | 3 - 250mm / 0.118" - 9.842" | BNC              |  |
| S3C        | Orange      | 3.5MHz    | 13mm / 0.512"              | 2 - 150mm / 0.078" - 5.905" |                  |   |
| S5C        | Black       | 5.0 MHz   | 13mm / 0.512"              | 1 - 50mm / 0.039" - 1.968"  |                  |   |
| S5A        | Black       | 5.0 MHz   | 6mm / 0.236"               | 1 - 50mm / 0.039" - 1.968"  | Lemo 00          |  |
| S2D        | Red         | 2.25 MHz  | 19mm / 0.748"              | 3 - 250mm / 0.118" - 9.842" | BNC              |  |

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 Size $\varnothing$ | Measuring Range in Steel in Single Echo | Measuring Range in Steel in Echo-Echo | Probe connectors |   |
|------------|-----------|----------------------------|---|---------------------------------------|------------------|---|
| T2C        | 2MHz      | 13mm / 0.512"              | 2.5 - 200mm<br>0.12 - 8"                | 5 - 50mm<br>0.2 - 2"                  | Twin Lemo 00     |  |
| T5B        | 5 MHz     | 8mm / 0.315"               | 1.5 - 150mm<br>0.08 - 6"                | 4 - 50mm<br>0.16 - 2"                 | Twin Lemo 00     |  |
| T7A        | 7.5MHz    | 5mm / 0.197"               | 0.8 - 50mm<br>0.04 - 2"                 | 3 - 25mm<br>0.12 - 1"                 | Integral cable   |  |

Suitable for use on surface temperatures up to 60°C (140°F)

### Probe Type reference key:

| First Letter<br>Single or Twin Crystal | Middle Number<br>Frequency in MHz                | Last Letter<br>Crystal Size $\varnothing$                                      |
|--|--|--|
| S = Single<br>T = Twin                 | 2 = 2 MHz / 2.25 MHz<br>3 = 3.5 MHz<br>5 = 5 MHz | A = 6mm / 0.236"<br>B = 8mm / 0.314"<br>C = 13mm / 0.512"<br>D = 19mm / 0.748" |



# Cygnus Probe Leads

for use with Cygnus Ultrasonic Thickness Gauges



## ***Leads for use with Cygnus 2 & 4 Mk5 & Cygnus 3 Mk4 Gauges***

|   | <i>Order Code</i> |
|---|-------------------|
| Probe Lead Lemo 1 - BNC 1.4m (4'6")                     | 004-0406          |
| Probe Lead Twin Lemo 00 to BNC 1.35m (4'6")             | 004-0410          |
| 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          |

## ***Leads for use with Cygnus 2+ & 4+ Mk5 Gauges***

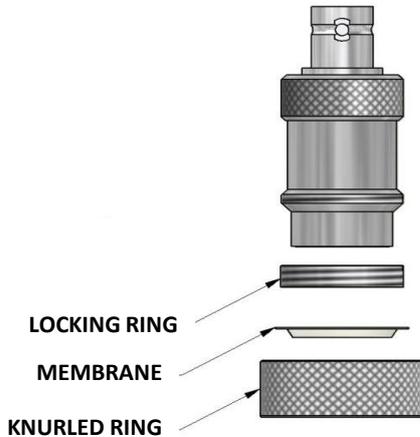
|   | <i>Order Code</i> |
|---|-------------------|
| Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")  | 004-0411          |
| Probe Lead Twin Lemo 00 to BNC 1.35m (4'6")           | 004-0410          |
| Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6") | 004-0412          |



# Cygnus Spare Membranes & Knurled Rings

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:

| Probe size | Size of head including Knurled Ring (approx.) | Physical size of membrane (approx.) |
|------------|---|-------------------------------------|
| 6mm        | 18mm  | 14mm                                |
| 13mm       | 24mm  | 21mm                                |
| 19mm       | 30mm  | 28.5mm                              |

## Standard Membranes

(Standard membranes are made of polyurethane and are suitable for surface temperatures up to 75°C (167°F). Available in packs of 20.)

|   | Order Code | Membrane Diameter | To fit "Probe Size" |
|---|------------|-------------------|---------------------|
| Pack of 20 Polyurethane Membranes for 19 mm (3/4") Probes | 001-3700   | 21 mm             | 19 mm Probe         |
| Pack of 20 Polyurethane Membranes for 13 mm (1/2") Probes | 001-3701   | 19 mm             | 13 mm Probe         |
| Pack of 20 Polyurethane Membranes for 6 mm (1/4") Probes  | 001-3702   | 13 mm             | 6 mm Probe          |

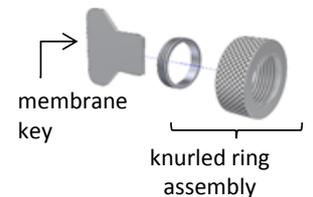
## Higher Temperature Membranes

(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.)

|   | Order Code | Membrane Diameter | Probe Size  |
|---|------------|-------------------|-------------|
| Pack of 10 Teflon Membranes for 19 mm (3/4") Probes | 001-4875   | 21 mm             | 19 mm Probe |
| Pack of 10 Teflon Membranes for 13 mm (1/2") Probes | 001-4874   | 19 mm             | 13 mm Probe |
| Pack of 10 Teflon Membranes for 6 mm (1/4") Probes  | 001-4873   | 13 mm             | 6 mm Probe  |

## Knurled Rings and Membrane (or Locking Ring) Keys

|  | Order Code |
|--|------------|
| Knurled Ring Assembly for 19 mm (3/4") Probes      | 001-3705   |
| Knurled Ring Assembly for 13 mm (1/2") INOX Probes | 001-3709   |
| Knurled Ring Assembly for 13 mm (1/2") Probes      | 001-3704   |
| Knurled Ring Assembly for 6 mm (1/4") Probes       | 001-3703   |
| Membrane Key for 19 mm (3/4") Probes               | 001-2610   |
| Membrane Key for 13 mm (1/2") Probes               | 001-2611   |
| Membrane Key for 6 mm (1/4") Probes                | 001-2612   |



# Cygnus Accessories

## Couplant

|                                      | Order Code |
|--------------------------------------|------------|
| UCA-2M UT Couplant Gel (1 litre tub) | 001-3707   |
| UCA-2M UT Couplant Gel (100 ml)      | 001-3708   |
| Membrane Couplant 25 ml bottle       | 001-3706   |



Membrane couplant

## Grease for use with UNDERWATER & DIVE Gauges

|                            |          |
|----------------------------|----------|
| Silicone Grease (50g Tube) | 001-4861 |
|----------------------------|----------|

## Test Blocks

|  | Order Code |
|--|------------|
| Steel Test Block 15 mm   | 001-4850   |
| Steel Test Block 1/2"  | 001-4851   |
| Stainless Steel Test Block 15 mm   | 001-4854   |
| Aluminium Test Block 15 mm   | 001-4857   |
| 3 Area Coated Test Block<br>(Non discountable item)  | 001-4887   |
| 4 Step Steel Test Block, metric 2.5 - 20mm<br>(Non discountable item)  | 001-4858   |
| 4 Step Steel Test Block, imperial 0.1 - 0.75 inch<br>(Non discountable item)   | 001-4859   |
| 4 Step Steel Calibration Block, metric 2.5 - 20mm<br>(Non discountable item) Traceable calibration certificate supplied        | 001-4876   |
| 4 Step Steel Calibration Block, imperial 0.1 - 0.75 inch<br>(Non discountable item) Traceable calibration certificate supplied | 001-4877   |
| Carbon Steel Step Block 5-25 mm in 5 mm steps set in perspex<br>(Supplied with dimensional and material type certificate.)     | 001-4856   |

3 Area Coated Test Block



4 Step Test Block



Carbon Steel Step Block & 15mm Test Blocks

## Pit Gauges

|  | Order Code |
|--|------------|
| Cygnus MECHANICAL PIT GAUGE<br>(Measurement Range: 0 to 43 mm) | 111-7165   |



Pit Gauge

## Surface Preparation Accessories

|   |          |
|---|----------|
| Chipping/Boiler Scaling Hammer 1lb Ash Handle | 500-0100 |
| Carbide Edged Power Scraper                   | 500-0101 |
| Steel Wire Brush & Scraper                    | 500-0102 |



Brush & Scraper

## Cygnus Manuals

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](mailto:sales@cygnus-instruments.com) and we will be happy to email it. Paper copies are available for £8.00 plus carriage



# Probes for Cygnus Supported Products

for use with Cygnus Ultrasonic Thickness Gauges

## **Probes for Cygnus 2, 3 & 4 Mk 4**

Order Code

|   |          |
|---|----------|
| Probe S2C 2.25 MHz 13 mm (1/2") with BNC - Lemo 1 cable   | 004-9310 |
| Probe S2D 2.25 MHz 19mm (3/4") with BNC - Lemo 1 cable    | 004-9311 |
| Probe S3C 3.5 MHz 13 mm (1/2") with BNC - Lemo 1 cable    | 004-9313 |
| Probe S5A 5.0 MHz 6 mm (1/4") with Lemo 00 - Lemo 1 cable | 004-9314 |
| Probe S5C 5.0 MHz 13 mm (1/2") with BNC - Lemo 1 cable    | 004-9316 |

## **Probes for Cygnus 2, 3 & 4 Mk 2/3**

Order Code

|   |          |
|---|----------|
| Probe 2.25MHz 13mm 1/2" BNC (Probe) - Lemo 00 (Gauge) | 002-9306 |
| Probe 2.25MHz 13mm 1/2" Lemo 00(Probe)-Lemo 00(Gauge) | 001-9300 |
| Probe 2.25MHz 19mm 3/4" BNC (Probe) - Lemo 00 (Gauge) | 001-9304 |
| Probe S3C 3.5MHz 13mm 1/2" Lemo 00Lemo 00             | 001-9350 |
| Probe 5MHz 6mm 1/4" Lemo 00 (Probe) - Lemo 00 (Gauge) | 001-9308 |
| Probe 5MHz 13mm 1/2" BNC (Probe) - Lemo 00 (Gauge)    | 002-9317 |
| Probe 5MHz 13mm 1/2" Lemo 00 (Probe) - Lemo 00(Gauge) | 001-9305 |

## **Probe Leads for Cygnus 2, 3 & 4 Mk 2/3**

Order Code

|  |          |
|--|----------|
| Probe Lead : RG58 Lemo 00 to BNC (length 1.35m, 4'6")        | 001-0402 |
| Probe Lead : RG58 Lemo 00 to Lemo 00 (length 1.35m, 4'6")    | 001-0400 |
| Probe Lead : RG58 BNC to BNC (length 1.35m, 4'6")            | 002-0404 |
| Probe Lead : RG58 (+ Choke) Lemo 00 to Lemo 00 (1.35m, 4'6") | 001-0436 |

(For use with Cygnus SE Gauge only)

## **Probes for Cygnus 2 & 3 Mk 1**

Order Code

|   |          |
|---|----------|
| Probe 2.25MHz 13mm 1/2" BNC (Probe) - BNC (Gauge)     | 002-9302 |
| Probe 2.25MHz 13mm 1/2" Lemo 00 (Probe) - BNC (Gauge) | 002-9318 |
| Probe 2.25MHz 19mm 3/4" BNC (Probe) - BNC (Gauge)     | 002-9303 |
| Probe 3.5MHz 13mm 1/2" S3C BNC (Probe) - BNC (Gauge)  | 002-9351 |
| Probe 5MHz 6mm 1/4" Lemo 00 (Probe) - BNC (Gauge)     | 002-9309 |
| Probe 5MHz 13mm 1/2" BNC (Probe) - BNC (Gauge)        | 002-9307 |

## **Marinised (underwater) Probes for Cygnus 2, 3 & 4 Mk 2/3**

Order Code

(Please add Marinised Cable length as required for all Marinised Probe orders. Cable includes a Lemo 1 connector to connect with the gauge)

|   |          |
|---|----------|
| Marinised Probe 2.25MHz 13mm 1/2" - Cyg 2,3,4 Lemo 00, no cable | 001-9378 |
| Marinised Probe 2.25MHz 19mm 3/4" Cyg 2,3,4 Lemo 00 no cable    | 001-9377 |
| Marinised Probe 3.5MHz 13mm 1/2" - Cyg 2,3,4 Lemo 00, no cable  | 001-9379 |
| Marinised Probe 5.0MHz 6mm 1/4" - Cyg 2,3,4 Lemo 00, no cable   | 001-9381 |
| Marinised Probe 5.0MHz 13mm 1/2" - Cyg 2,3,4 Lemo 00, no cable  | 001-9380 |
| Cable Standard Marinised Underwater priced per metre            | 001-0434 |

(50m max. length for "S2-" (2.25MHz) probes, for other frequencies please contact Cygnus)

## **Probes for Cygnus Intrinsically Safe Mk 1/2 up to S/N 3231**

Order Code

|  |          |
|--|----------|
| Probe 2.25MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2)            | 001-9325 |
| Probe 2.25MHz 19mm (3/4") for Cygnus 1 IS (Mk1,2)            | 001-9324 |
| Probe 3.5MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2)             | 001-9326 |
| Probe 5.0MHz 6mm (1/4") for Cygnus 1 IS (Mk1,2)              | 001-9329 |
| Probe 5.0MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2)             | 001-9327 |
| Right Angle Probe 2.25MHz 13mm(1/2") for Cygnus 1 IS (Mk1,2) | 001-9372 |
| Right Angle Probe 3.5MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2) | 001-9374 |
| Right Angle Probe 5.0MHz 6mm (1/4") for Cygnus 1 IS (Mk1,2)  | 001-9375 |
| Right Angle Probe 5.0MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2) | 001-9376 |



# Spare Parts for Cygnus Products

(continued)

for use with Cygnus Ultrasonic Thickness Gauges (Current & Supported)

## ***Gauge Bodies (latest electronics available only)***

*Order Code*

|   |                 |
|---|-----------------|
| Cygnus 2 HANDS FREE Mk5 Gauge Body only                   | 050-2011/5      |
| Cygnus 2+ HANDS FREE Mk5 Gauge Body only                  | 050-2015/5      |
| Cygnus 2 HANDS FREE Mk4 Gauge Body only                   | 002-7173/4      |
| Cygnus 3 DATA LOGGER Gauge Body only                      | 003-7177/4      |
| Cygnus 4 GENERAL PURPOSE Mk5 Gauge Body only              | 050-4011/5      |
| Cygnus 4+ GENERAL PURPOSE Mk5 Gauge Body only             | 050-4015/5      |
| Cygnus 6+ PRO Mk5 Gauge body only                         | 050-6011/5      |
| Cygnus 4 GENERAL PURPOSE Gauge Mk4 Body only              | 004-7182/4      |
| Cygnus 1 INTRINSICALLY SAFE CSA Gauge Body only           | 001-7171-CSA/3  |
| Cygnus 1 INTRINSICALLY SAFE ATEX Gauge Body only          | 001-7171-ATEX/3 |
| Cygnus DIVE Underwater Thickness Gauge Mk2 Body only      | 001-7255/2      |
| Cygnus DATA LOGGING DIVE UW Thickness Gauge Mk2 Body only | 001-7259/2      |
| Cygnus UNDERWATER Gauge Body only with TOPSIDE Connector  | 001-7179/4      |
| Cygnus TOPSIDE REPEATER (Instrument Body)                 | 001-7181/4      |
| Cygnus HEAVY DUTY Gauge Body only                         | 001-7170/4      |
| Cygnus ROV Mountable 2000m UTG Gauge Body only            | 001-7189/5      |
| Cygnus ROV Mountable 4000m UTG Gauge Body                 | 001-7191/5      |
| Cygnus MINI ROV Mountable UTG Gauge Body                  | 001-7190/4      |

## ***Carry cases, pouches, sleeves, slings & straps (Supported & Current products)***

*Order Code*

### ***for Surface Thickness Gauges***

|  |            |
|--|------------|
| Soft Carry Case + foam for C2, 2+,4,4+,6+ Mk5 Gauge Kits     | 050-0105   |
| 2x fixings for neck strap for Cygnus 2,2+,4,4+,6+ Mk5 Gauges | 050-0116   |
| Soft Carry case + foam for Cygnus 2, 3, 4 Mk4 Gauges         | 002-4838   |
| Silicone Sleeve for Cygnus 2 HANDS FREE Mk4 Gauge            | 002-4835   |
| Silicone Sleeve for Cygnus 4 GENERAL PURPOSE Mk4 or TSR      | 004-4835   |
| Belt Clip for Silicone Sleeve for Cygnus 2/3/4 Mk4 Gauges    | 002-4836/4 |
| Neck strap for use with Cygnus 2/3/4 Mk4                     | 002-4841   |
| Cygnus 2/3 Mk3 Leather Case                                  | 002-4817   |
| Leather Case for Cygnus 4 Mk 3                               | 004-4804   |
| Carry Case for Cygnus 4 Mk3/SE                               | 004-4823   |
| Fabric Accessories Pouch                                     | 002-4837/4 |
| Hard Carry Case for Cygnus 1 IS and HD Gauge Kits            | 001-4800   |
| Peli Carry Case for Cygnus 2, 2+ & 4 Mk5 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 (Yellow)             | 001-7252/2   |
| Peli Carry Case for Cygnus Underwater Gauge Kit (Yellow) | 001-4813-UW  |
| Peli Carry Case for Cygnus ROV Gauge Kit (Yellow)        | 001-4813-ROV |

### ***for Hatch Sure***

|  |          |
|--|----------|
| Ruck Sack Soft Carry Case for Hatch Sure Kit           | 006-1009 |
| Protective Pouch with Sling for Hatch Sure Transmitter | 006-1011 |
| Protective Pouch for Hatch Sure Receiver               | 006-1014 |
| Waist Strap for Hatch Sure Receiver                    | 006-1015 |

### ***for Sonaphone***

|   |          |
|---|----------|
| Leather Instrument Case with Shoulder Strap for Sonaphone | 009-7408 |
|---|----------|

## ***Additional Cable***

*Order Code*

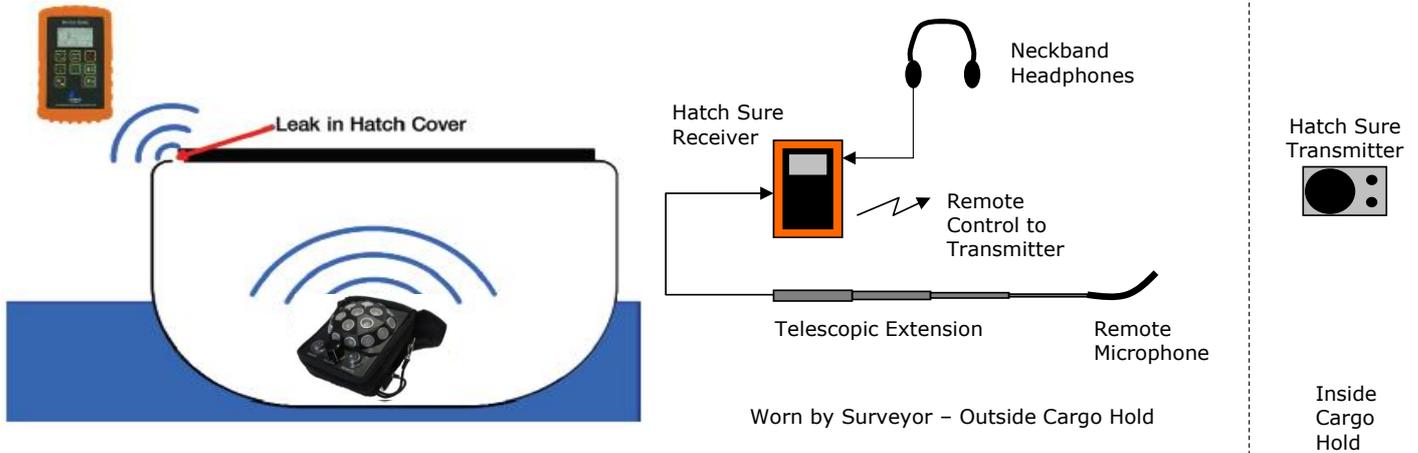
|  |          |
|--|----------|
| Cable Black RG58 for Remote Probes per metre               | 001-0435 |
| Umbilical cable for DIVE / UW / ROV to Topside (per metre) | 001-0415 |



# 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.



Nato Stock No: 6635-99-614-0640

### Cygnus HATCH SURE Kit

Order Code

Cygnus HATCH SURE Hatch Cover Leak Detection System

006-1001

*Kit contents: Cygnus HATCH SURE receiver with protective case, neck and waist straps, 2 flexible inspection microphones, telescopic extension and cable for microphone, neck band headphones, variable output HATCH SURE transmitter with protective case and lowering harness, rechargeable batteries for transmitter and receiver, battery charger, external 9 - 24 V DC power lead for transmitter, operation manual, rucksack carry case.*



### General Spares for Cygnus HATCH SURE

Order Code

|   |          |
|---|----------|
| Hatch Sure Transmitter Unit                           | 006-1010 |
| Hatch Sure Receiver                                   | 006-1012 |
| Inspection Microphone for Hatch Sure (235 x 10mm)     | 006-1020 |
| Inspection Microphone for Hatch Sure (335 x 10mm)     | 006-1021 |
| Microphone Cover for Hatch Sure Inspection Microphone | 006-1018 |
| Emergency Microphone Cable for Hatch Sure Receiver    | 006-1016 |
| Telescopic Extension for Hatch Sure                   | 006-1003 |
| Tripod for use with Hatch Sure                        | 006-1056 |
| TX TriPod Bracket with Velcro                         | 006-1054 |
| BNC Straight Adapter for Hatch Sure Receiver          | 006-1017 |
| Neckband Headphones for Hatch Sure                    | 006-1004 |
| Batteries 6 x AA NiMH MaxE for Hatch Sure Transmitter | 006-1005 |
| Battery PP3 NiMH Max-e for Hatch Sure Receiver        | 006-1006 |
| Battery Charger KH980 for Hatch Sure Kit              | 006-1007 |
| DC Power Lead for Hatch Sure Transmitter              | 006-1008 |
| Orange Protective Boot for Hatch Sure Receiver        | 006-1013 |



## 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



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**page 2 Cygnus 2 HANDS FREE**

|   | <i>Order Code</i> |
|---|-------------------|
| Cygnus 2 UTG Kit  | 050-2000/5        |
| Probe S2C Single 2.25MHz 13mm with BNC connector              | 004-9500          |
| Probe S2D Single 2.25MHz 19mm with BNC connector              | 004-9502          |
| Probe S3C Single 3.5MHz 13mm with BNC connector               | 004-9504          |
| Probe S5C Single 5MHz 13mm with BNC connector                 | 004-9508          |
| Probe Lead Lemo 1 - BNC 1.4m (4'6")                           | 004-0406          |
| Probe S5A Single 5MHz 6mm with Single Lemo 00 connector       | 004-9507          |
| Probe Lead Single Lemo 1 - Single Lemo 00 1.35 m (4'6")       | 004-0401          |
| Right Angle Probe 2.25MHz 13mm (1/2") Lemo 1 (integral cable) | 001-9387          |
| Right Angle Probe 3.5MHz 13mm (1/2") Lemo 1 (integral cable)  | 001-9389          |
| Right Angle Probe 5.0MHz 6mm (1/4") Lemo 1 (integral cable)   | 001-9390          |
| Marinised Probe S2C 2.25MHz 13mm                              | 002-9387          |
| Marinised Probe S2D 2.25MHz 19mm                              | 002-9388          |
| Cable Heavy Duty Marinised Underwater priced per metre        | 001-0444          |
| Cable Standard Marinised Underwater priced per metre          | 001-0434          |
| Neck Strap with fixings for Mk5 gauges                        | 050-0115          |
| Hand Strap with fixing for Mk5 Gauges                         | 050-0110          |
| Belt Clip with fixing for Mk5 gauges                          | 050-0100          |
| Peli Carry Case for Cygnus 2, 2+ & 4 Mk5 Gauge Kit            | 050-4010/5        |

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**page 3 Cygnus 2+ HANDS FREE**

|  | <i>Order Code</i> |
|--|-------------------|
| Cygnus 2+ UTG Kit  | 050-2500/5        |
| Probe S2C Single 2.25MHz 13mm with BNC connector             | 004-9500          |
| Probe S2D Single 2.25MHz 19mm with BNC connector             | 004-9502          |
| Probe S3C Single 3.5MHz 13mm with BNC connector              | 004-9504          |
| Probe S5C Single 5MHz 13mm with BNC connector                | 004-9508          |
| 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          |
| Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")        | 004-0412          |
| Probe T2C Twin 2MHz 13mm (1/2") with Twin Lemo 00 connector  | 004-9550          |
| Probe T5B Twin 5MHz 8mm (1/3") with Twin Lemo 00 connector   | 004-9555          |
| Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")         | 004-0411          |
| Probe T7A Twin 7.5MHz 5mm (3/6") integral cable Twin Lemo 00 | 004-9575          |
| 4 Step Steel Test Block, metric 2.5 - 20mm                   | 001-4858          |
| 4 Step Steel Test Block, imperial 0.1 - 0.75 inch            | 001-4859          |
| Marinised Probe S2C 2.25MHz 13mm                             | 002-9387          |
| Marinised Probe S2D 2.25MHz 19mm                             | 002-9388          |
| Marinised Probe S3C 3.5MHz 13mm                              | 002-9389          |
| Cable Heavy Duty Marinised Underwater priced per metre       | 001-0444          |
| Cable Standard Marinised Underwater priced per metre         | 001-0434          |
| Twin Lemo 00 to Single Lemo 1 adapter for Mk5 "+" models     | 050-0106          |
| Neck Strap with fixings for Mk5 gauges                       | 050-0115          |
| Hand Strap with fixing for Mk5 Gauges                        | 050-0110          |
| Belt Clip with fixing for Mk5 gauges                         | 050-0100          |
| Peli Carry Case for Cygnus 2, 2+ & 4 Mk5 Gauge Kit           | 050-4010/5        |



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**page 4 Cygnus 4 GENERAL PURPOSE**

|   | <i>Order Code</i> |            |
|---|-------------------|------------|
| Cygnus 4 UTG kit  | 050-4000/5        | € 1,362.90 |
| Probe S2C Single 2.25MHz 13mm with BNC connector              | 004-9500          |            |
| Probe S2D Single 2.25MHz 19mm with BNC connector              | 004-9502          |            |
| Probe S3C Single 3.5MHz 13mm with BNC connector               | 004-9504          |            |
| Probe S5C Single 5MHz 13mm with BNC connector                 | 004-9508          |            |
| Probe Lead Lemo 1 - BNC 1.4m (4'6")                           | 004-0406          |            |
| Probe S5A Single 5MHz 6mm with Single Lemo 00 connector       | 004-9507          |            |
| Probe Lead Single Lemo 1 - Single Lemo 00 1.35 m (4'6")       | 004-0401          |            |
| Right Angle Probe 2.25MHz 13mm (1/2") Lemo 1 (integral cable) | 001-9387          |            |
| Right Angle Probe 3.5MHz 13mm (1/2") Lemo 1 (integral cable)  | 001-9389          |            |
| Right Angle Probe 5.0MHz 6mm (1/4") Lemo 1 (integral cable)   | 001-9390          |            |
| Marinised Probe S2C 2.25MHz 13mm                              | 002-9387          |            |
| Marinised Probe S2D 2.25MHz 19mm                              | 002-9388          |            |
| Cable Heavy Duty Marinised Underwater priced per metre        | 001-0444          |            |
| Cable Standard Marinised Underwater priced per metre          | 001-0434          |            |
| Neck Strap with fixings for Mk5 gauges                        | 050-0115          |            |
| Hand Strap with fixing for Mk5 Gauges                         | 050-0110          |            |
| Belt Clip with fixing for Mk5 gauges                          | 050-0100          |            |
| Peli Carry Case for Cygnus 2, 2+ & 4 Mk5 Gauge Kit            | 050-4010/5        |            |

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**page 5 Cygnus 4+ GENERAL PURPOSE**

|  | <i>Order Code</i> |            |
|--|-------------------|------------|
| Cygnus 4+ UTG Kit  | 050-4500/5        | € 1,893.90 |
| Cygnus 4+ software upgrade for added data logging functions  | 050-4520          |            |
| Probe S2C Single 2.25MHz 13mm with BNC connector             | 004-9500          |            |
| Probe S2D Single 2.25MHz 19mm with BNC connector             | 004-9502          |            |
| Probe S3C Single 3.5MHz 13mm with BNC connector              | 004-9504          |            |
| Probe S5C Single 5MHz 13mm with BNC connector                | 004-9508          |            |
| 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          |            |
| Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")        | 004-0412          |            |
| Probe T2C Twin 2MHz 13mm (1/2") with Twin Lemo 00 connector  | 004-9550          |            |
| Probe T5B Twin 5MHz 8mm (1/3") with Twin Lemo 00 connector   | 004-9555          |            |
| Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")         | 004-0411          |            |
| Probe T7A Twin 7.5MHz 5mm (3/6") integral cable Twin Lemo 00 | 004-9575          |            |
| 4 Step Steel Test Block, metric 2.5 - 20mm                   | 001-4858          |            |
| 4 Step Steel Test Block, imperial 0.1 - 0.75 inch            | 001-4859          |            |
| Marinised Probe S2C 2.25MHz 13mm                             | 002-9387          |            |
| Marinised Probe S2D 2.25MHz 19mm                             | 002-9388          |            |
| Marinised Probe S3C 3.5MHz 13mm                              | 002-9389          |            |
| Cable Heavy Duty Marinised Underwater priced per metre       | 001-0444          |            |
| Cable Standard Marinised Underwater priced per metre         | 001-0434          |            |
| Twin Lemo 00 to Single Lemo 1 adapter for Mk5 "+" models     | 050-0106          |            |
| Mini USB cable for data transfer                             | 050-0120          |            |
| Neck Strap with fixings for Mk5 gauges                       | 050-0115          |            |
| Hand Strap with fixing for Mk5 Gauges                        | 050-0110          |            |
| Belt Clip with fixing for Mk5 gauges                         | 050-0100          |            |
| Peli Carry Case for Cygnus 4+ Mk5 Gauge Kit                  | 050-4511/5        |            |



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**page 6 Cygnus 6+ PRO***Order Code*

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|  |            |
|--|------------|
| Cygnus 6+ Kit  | 050-6500/5 |
| Probe S2C Single 2.25MHz 13mm with BNC connector             | 004-9500   |
| Probe S2D Single 2.25MHz 19mm with BNC connector             | 004-9502   |
| Probe S3C Single 3.5MHz 13mm with BNC connector              | 004-9504   |
| Probe S5C Single 5MHz 13mm with BNC connector                | 004-9508   |
| 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   |
| Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")        | 004-0412   |
| Probe T2C Twin 2MHz 13mm (1/2") with Twin Lemo 00 connector  | 004-9550   |
| Probe T5B Twin 5MHz 8mm (1/3") with Twin Lemo 00 connector   | 004-9555   |
| Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")         | 004-0411   |
| Probe T7A Twin 7.5MHz 5mm (3/6") integral cable Twin Lemo 00 | 004-9575   |
| 4 Step Steel Test Block, metric 2.5 - 20mm                   | 001-4858   |
| 4 Step Steel Test Block, imperial 0.1 - 0.75 inch            | 001-4859   |
| Marinised Probe S2C 2.25MHz 13mm                             | 002-9387   |
| Marinised Probe S2D 2.25MHz 19mm                             | 002-9388   |
| Marinised Probe S3C 3.5MHz 13mm                              | 002-9389   |
| Cable Heavy Duty Marinised Underwater priced per metre       | 001-0444   |
| Cable Standard Marinised Underwater priced per metre         | 001-0434   |
| Twin Lemo 00 to Single Lemo 1 adapter for Mk5 "+" models     | 050-0106   |
| Mini USB cable for data transfer                             | 050-0120   |
| Bluetooth Adapter V4.0 USB Belkin                            | 050-0125   |
| Neck Strap with fixings for Mk5 gauges                       | 050-0115   |
| Hand Strap with fixing for Mk5 Gauges                        | 050-0110   |
| Belt Clip with fixing for Mk5 gauges                         | 050-0100   |
| Peli Carry Case for Cygnus 6+ Mk5 Gauge Kit                  | 050-6511/5 |



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**page 7 Cygnus 1 INTRINSICALLY SAFE ATEX**

|  | <i>Order Code</i> |
|--|-------------------|
| Cygnus 1 INTRINSICALLY SAFE ATEX Kit with 2.25MHz 13mm Probe | 001-7121/3        |
| Cygnus 1 INTRINSICALLY SAFE ATEX Kit, without Probe          | 001-9921/3        |
| Probe S2C 2.25 MHz 13 mm (1/2") for Cygnus 1 IS ATEX Mk 3    | 001-9412-ATEX     |
| Probe S2D 2.25 MHz 19 mm (3/4") for Cygnus 1 IS ATEX Mk 3    | 001-9411-ATEX     |
| Probe S3C 3.5 MHz 13 mm (1/2") for Cygnus 1 IS ATEX Mk 3     | 001-9413-ATEX     |
| Probe S5C 5.0 MHz 13 mm (1/2") for Cygnus 1 IS ATEX Mk 3     | 001-9344-ATEX     |
| Probe S5A 5.0 MHz 6 mm (1/4") for Cygnus 1 IS ATEX Mk 3      | 001-9345-ATEX     |
| Right Angle Probe 2.25 MHz 13 mm for Cygnus 1 IS ATEX Mk 3   | 001-9403          |
| Right Angle Probe 3.5 MHz 13 mm for Cygnus 1 IS ATEX Mk 3    | 001-9405          |
| Right Angle Probe 5.0 MHz 6 mm for Cygnus 1 IS ATEX Mk 3     | 001-9406          |
| Right Angle Probe 5.0 MHz 13 mm for Cygnus 1 IS ATEX Mk 3    | 001-9407          |
| Battery for Cygnus 1 INTRINSICALLY SAFE ATEX Gauge Mk 3      | 001-1505-ATEX     |
| Battery Charger for Cygnus UW / IS Mk 3/4 (UK Mains Plug)    | 001-1514          |
| Battery Charger for Cygnus UW / IS Mk 3/4 (US Mains Plug)    | 001-1515          |
| Battery Charger for Cygnus UW / IS Mk 3/4 (EU Mains Plug)    | 001-1516          |
| Calibration Jumper Lead for Cygnus 1 IS, UW & HD Gauges      | 001-0410          |
| Calibration Trim Tool  | 001-2600          |
| Hex Key for Cygnus 1 INTRINSICALLY SAFE Gauge                | 001-2619          |
| Nose Cone Torque Bar   | 001-2620          |
| 'O' Ring Pack for Cygnus 1 IS/ROV Gauges Mk 3/4              | 001-3713          |

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**page 8 Cygnus HEAVY DUTY**

|  | <i>Order Code</i> |
|--|-------------------|
| Cygnus HEAVY DUTY UTG Kit with 2.25MHz 13mm Probe          | 001-7111/4        |
| Cygnus HEAVY DUTY UTG Kit, without Probe                   | 001-9911/4        |
| Probe S2C 2.25 MHz 13 mm (1/2") for Cygnus HEAVY DUTY      | 001-9330          |
| Probe S2D 2.25 MHz 19 mm (3/4") for Cygnus HEAVY DUTY      | 001-9332          |
| Probe S3C 3.5 MHz 13 mm (1/2") for Cygnus HEAVY DUTY       | 001-9355          |
| Probe S5C 5.0 MHz 13 mm (1/2") for Cygnus HEAVY DUTY       | 001-9334          |
| Probe S5A 5.0 MHz 6 mm (1/4") for Cygnus HEAVY DUTY        | 001-9336          |
| Right Angle Probe 2.25 MHz 13 mm for Cygnus HEAVY DUTY     | 001-9367          |
| Right Angle Probe 3.5 MHz 13 mm for Cygnus HEAVY DUTY      | 001-9369          |
| Right Angle Probe 5.0 MHz 13 mm for Cygnus HEAVY DUTY      | 001-9371          |
| Right Angle Probe 5.0 MHz 6 mm for Cygnus HEAVY DUTY       | 001-9370          |
| Battery Insert Plate (3 x AA) for Cygnus HEAVY DUTY Mk 3/4 | 001-3723          |
| Calibration Jumper Lead for Cygnus 1 IS, UW & HD Gauges    | 001-0410          |
| Calibration Trim Tool                                      | 001-2600          |
| Nose Cone Torque Bar                                       | 001-2620          |
| 'O' Ring Pack for Cygnus HD Gauge                          | 001-3718          |



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**pages 9-11 Cygnus DIVE**

|  | <i>Order Code</i> |
|--|-------------------|
| Cygnus DIVE Mk2 UTG Kit with S2C 2.25 MHz 13 mm Probe        | 001-7210/2        |
| Cygnus DIVE Mk2 UTG Kit, without Probe                       | 001-7200/2        |
| Cygnus Data Logging DIVE Mk2 UTG Kit with S2C Probe          | 001-7211/2        |
| Cygnus Data Logging DIVE Mk2 UTG Kit, without Probe          | 001-7201/2        |
| TOPSIDE REPEATER (TSR) Kit for Cygnus DIVE                   | 001-7221/4        |
| TOPSIDE REPEATER (TSR) Kit with Video OSD for Cygnus DIVE    | 001-7218/1        |
| Surface computer logging feature for Cygnus DIVE             | 001-7220          |
| Umbilical cable for DIVE / UW / ROV to Topside (per metre)   | 001-0415          |
| Probe S2C Single Crystal 2.25 MHz 13 mm (1/2") for DIVE      | 001-7230          |
| Probe S3C Single Crystal 3.5 MHz 13 mm (1/2") for DIVE       | 001-7231          |
| Probe S5C Single Crystal Probe 5.0 MHz 13 mm (1/2") for DIVE | 001-7232          |
| Probe S5A Single Crystal 5.0 MHz 6 mm (1/4") for DIVE        | 001-7233          |
| Probe T5B Twin Crystal 5 MHz 8 mm for Cygnus DIVE Mk2        | 001-7235          |
| Probe T2C Twin Crystal 2 MHz 13 mm for Cygnus DIVE Mk2       | 001-7236          |
| HelmetView MK2 Remote Display Kit                            | 001-7224/2        |
| Splitter Cable for Cygnus DIVE HelmetView & Surface Display  | 001-7270          |
| CygLink Data Logging software upgrade for Cygnus DIVE        | 001-7219/2        |
| 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          |
| Video Cables and Adapters for Topside Repeater with OSD      | 001-0442          |
| Cygnus DIVE (Fischer)-(9-way D) topside umbilical connectors | 001-7260          |
| Cygnus DIVE Battery  | 001-7250          |
| Battery Charger for Cygnus DIVE (UK Mains Plug)              | 001-7251-UK       |
| Battery Charger for Cygnus DIVE (EU Mains Plug)              | 001-7251-EU       |
| Battery Charger for Cygnus DIVE (US Mains Plug)              | 001-7251-US       |
| Screen Protector for Cygnus DIVE                             | 001-7263          |
| Replacement Lanyard for Cygnus DIVE                          | 001-7257          |
| Operation Manual for Cygnus DIVE on USB Flash Drive          | 001-7256          |

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**page 12 Cygnus UNDERWATER**

|  | <i>Order Code</i> |
|--|-------------------|
| Cygnus UNDERWATER UTG Upgradeable Kit inc 2.25MHz 13mm Probe | 001-7133/4        |
| Cygnus UNDERWATER UTG Upgradeable Kit, without Probe         | 001-9933/4        |
| Probe S2C 2.25MHz 13mm(1/2") for Cygnus Underwater/MINI ROV  | 001-9340          |
| Probe S2D 2.25MHz 19mm(3/4") for Cygnus Underwater           | 001-9341          |
| Probe S3C 3.5MHz 13mm(1/2") for Cygnus Underwater            | 001-9357          |
| Probe S5C 5.0MHz 13mm(1/2") for Cygnus Underwater            | 001-9342          |
| Probe S5A 5.0MHz 6mm(1/4") for Cygnus Underwater             | 001-9343          |
| Fixed Head Probe 2.25MHz 13mm (1/2") for Cygnus Underwater   | 001-9320          |
| Upgrade Kit 'A' (TSR) for Cygnus UNDERWATER                  | 001-7133A         |
| Upgrade Kit 'B' (CygLink) for Cygnus UNDERWATER              | 001-7133B         |
| Umbilical cable for DIVE / UW / ROV to Topside (per metre)   | 001-0415          |
| Battery for Cygnus UNDERWATER Gauges Mk 3/4                  | 001-1504          |
| Battery Charger for Cygnus UW / IS Mk 3/4 (UK Mains Plug)    | 001-1514          |
| Battery Charger for Cygnus UW / IS Mk 3/4 (US Mains Plug)    | 001-1515          |
| Battery Charger for Cygnus UW / IS Mk 3/4 (EU Mains Plug)    | 001-1516          |
| Calibration Jumper Lead for Cygnus 1 IS, UW & HD Gauges      | 001-0410          |
| 'O' Ring Pack for Cygnus UNDERWATER Gauge                    | 001-3711          |
| Spares Kit for Cygnus UNDERWATER Gauge                       | 001-3715          |
| Impulse Connector 4-Way with Flying Lead                     | 001-0418          |
| Impulse Connector 4-Way Blanking Plug                        | 001-0419          |
| Isolated Data Converter (RS422/RS485 to USB)                 | 001-8305          |
| CygLink Software and Underwater Gauge Manual on USB stick    | 001-8210          |
| 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          |



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**pages 13 & 14 Cygnus ROV MOUNTABLE 2000 m / 4000 m**

|  | <i>Order Code</i> |
|--|-------------------|
| Cygnus M5-ROV-2K 2000m ROV UTG Kit with 2.25MHz 13mm Probe   | 001-7149/5        |
| Cygnus M5-ROV-2K 2000m ROV UTG Kit, without Probe            | 001-9949/5        |
| Cygnus M5-ROV-4K 4000m ROV UTG Kit with 2.25MHz 13mm Probe   | 001-7145/5        |
| Cygnus M5-ROV-4K 4000m ROV UTG Kit, without Probe            | 001-9945/5        |
| Probe S2C 2.25MHz 13mm for Cygnus ROV 2/4km (5m cable)       | 001-9393          |
| Probe S2C 2.25MHz 13mm for Cygnus ROV 2/4km (cust length)    | 001-9394          |
| Probe S2D 2.25MHz 19mm for Cygnus ROV 2/4km (5m cable)       | 001-9395          |
| TOPSIDE REPEATER Kit with Video OSD for Cygnus ROV 2/4km     | 001-7183/4        |
| Cygnus 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 for Cygnus W1 PROBE HANDLER      | 001-8316          |
| 3/4" T-Bar Manipulator Handle for Cygnus W1 PROBE HANDLER    | 001-8314          |
| 1/2" T-Bar Manipulator Handle for Cygnus W1 PROBE HANDLER    | 001-8315          |
| Probe S2C 2.25MHz 13mm for W1 & ROV MOUNTABLE 2/4km 5m Cable | 001-8318          |
| Probe S2C 2.25MHz 13mm for G1 & ROV MOUNTABLE 2/4km 1m Cable | 001-8355          |
| Probe S2C 2.25MHz 13mm for S1 & ROV MOUNTABLE 2/4km 1m Cable | 001-8335          |
| 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 M5-ROV      | 003-8213          |
| Video Cables and Adapters for Topside Repeater with OSD      | 001-0442          |
| Power & Data Connector for M5-ROV with flying lead           | 001-0431          |
| Data Test & Power Cable RS232/422 for use with M5-ROV's      | 001-0439          |
| Umbilical cable connectors for Mk5 ROV Mountable             | 001-7185          |
| Spares kit for Cygnus ROV Mountable 2000m/4000m Gauges       | 001-3719          |

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**page 15 Cygnus MINI ROV MOUNTABLE**

|  | <i>Order Code</i> |
|--|-------------------|
| Cygnus MINI 500m ROV UTG Kit with 2.25 MHz 13 mm Probe       | 001-7144/4        |
| Cygnus MINI ROV 500m UTG Kit, without Probe                  | 001-9944/4        |
| Probe S2C 2.25MHz 13mm(1/2") for Cygnus Underwater/MINI ROV  | 001-9340          |
| Probe S2D 2.25MHz 19mm for Cygnus MINI ROV MOUNTABLE         | 003-9410          |
| Cygnus G1 Inspection ROV PROBE HANDLER, without Probe        | 001-8351          |
| Probe S2C 2.25MHz 13mm for G1 & MINI ROV (1m cable)          | 001-8354          |
| Cygnus S1 Hull Inspection ROV PROBE HANDLER, without Probe   | 001-8331          |
| Probe S2C 2.25MHz 13mm for S1 & MINI ROV (1m cable)          | 001-8334          |
| TOPSIDE REPEATER Kit with Video OSD for Cygnus MINI ROV      | 001-7153/4        |
| Videoray Mounting Brackets for Cygnus MINI ROV incl fittings | 001-8307          |
| Videoray Connection Cable (4-way Impulse to 9-way SubConn)   | 001-0433          |
| 'O' Ring Pack for Cygnus MINI /1km /3km ROV Mountable Gauges | 001-3712          |
| 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                | 001-8333          |
| Impulse Connector 4-Way Blanking Plug                        | 001-0419          |
| Video Cables and Adapters for Topside Repeater with OSD      | 001-0442          |
| Umbilical cable connectors for MINI ROV Mountable Gauge      | 001-7154          |



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**page 17 Cygnus Leads**

|   | <i>Order Code</i> |
|---|-------------------|
| Probe Lead Lemo 1 - BNC 1.4m (4'6")                     | 004-0406          |
| Probe Lead Twin Lemo 00 to BNC 1.35m (4'6")             | 004-0410          |
| 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          |
| Probe Lead Twin Lemo 00 to Twin Lemo 00 1.35m (4'6")    | 004-0411          |
| Probe Lead Twin Lemo 00 to BNC 1.35m (4'6")             | 004-0410          |
| Probe Lead Twin Lemo 00 to Single Lemo 00 1.4m (4'6")   | 004-0412          |

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**page 18 Cygnus Membranes & Knurled Rings**

|   | <i>Order Code</i> |
|---|-------------------|
| Pack of 20 Polyurethane Membranes for 19 mm (3/4") Probes | 001-3700          |
| Pack of 20 Polyurethane Membranes for 13 mm (1/2") Probes | 001-3701          |
| Pack of 20 Polyurethane Membranes for 6 mm (1/4") Probes  | 001-3702          |
| Pack of 10 Teflon Membranes for 19 mm (3/4") Probes       | 001-4875          |
| Pack of 10 Teflon Membranes for 13 mm (1/2") Probes       | 001-4874          |
| Pack of 10 Teflon Membranes for 6 mm (1/4") Probes        | 001-4873          |
| Knurled Ring Assembly for 19 mm (3/4") Probes             | 001-3705          |
| Knurled Ring Assembly for 13 mm (1/2") INOX Probes        | 001-3709          |
| Knurled Ring Assembly for 13 mm (1/2") Probes             | 001-3704          |
| Knurled Ring Assembly for 6 mm (1/4") Probes              | 001-3703          |
| Membrane Key for 19 mm (3/4") Probes                      | 001-2610          |
| Membrane Key for 13 mm (1/2") Probes                      | 001-2611          |
| Membrane Key for 6 mm (1/4") Probes                       | 001-2612          |

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**page 19 Cygnus Accessories**

|  | <i>Order Code</i> |
|--|-------------------|
| UCA-2M UT Couplant Gel (1 litre tub)                         | 001-3707          |
| UCA-2M UT Couplant Gel (100 ml)                              | 001-3708          |
| Membrane Couplant 25 ml bottle                               | 001-3706          |
| Silicone Grease (50g Tube)                                   | 001-4861          |
| Steel Test Block 15 mm                                       | 001-4850          |
| Steel Test Block 1/2"  | 001-4851          |
| Stainless Steel Test Block 15 mm                             | 001-4854          |
| Aluminium Test Block 15 mm                                   | 001-4857          |
| 3 Area Coated Test Block                                     | 001-4887          |
| <i>(Non discountable item)</i>                               |                   |
| 4 Step Steel Test Block, metric 2.5 - 20mm                   | 001-4858          |
| <i>(Non discountable item)</i>                               |                   |
| 4 Step Steel Test Block, imperial 0.1 - 0.75 inch            | 001-4859          |
| <i>(Non discountable item)</i>                               |                   |
| 4 Step Steel Calibration Block, metric 2.5 - 20mm            | 001-4876          |
| <i>(Non discountable item)</i>                               |                   |
| Supplied with a traceable calibration certificate            |                   |
| 4 Step Steel Calibration Block, imperial 0.1 - 0.75 inch     | 001-4877          |
| <i>(Non discountable item)</i>                               |                   |
| Supplied with a traceable calibration certificate            |                   |
| Carbon Steel Step Block 5-25 mm in 5 mm steps set in perspex | 001-4856          |
| Cygnus MECHANICAL PIT GAUGE                                  | 111-7165          |
| Chipping/Boiler Scaling Hammer 1lb Ash Handle                | 500-0100          |
| Carbide Edged Power Scraper                                  | 500-0101          |
| Steel Wire Brush & Scraper                                   | 500-0102          |



**page 20 Probes for Cygnus Supported Products**

*Order Code*

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|  |          |
|--|----------|
| Probe S2C 2.25 MHz 13 mm (1/2") with BNC - Lemo 1 cable        | 004-9310 |
| Probe S2D 2.25 MHz 19mm (3/4") with BNC - Lemo 1 cable         | 004-9311 |
| Probe S3C 3.5 MHz 13 mm (1/2") with BNC - Lemo 1 cable         | 004-9313 |
| Probe S5A 5.0 MHz 6 mm (1/4") with Lemo 00 - Lemo 1 cable      | 004-9314 |
| Probe S5C 5.0 MHz 13 mm (1/2") with BNC - Lemo 1 cable         | 004-9316 |
| Probe 2.25MHz 13mm 1/2" BNC (Probe) - Lemo 00 (Gauge)          | 002-9306 |
| Probe 2.25MHz 13mm 1/2" Lemo 00(Probe)-Lemo 00(Gauge)          | 001-9300 |
| Probe 2.25MHz 19mm 3/4" BNC (Probe) - Lemo 00 (Gauge)          | 001-9304 |
| Probe S3C 3.5MHz 13mm 1/2" Lemo 00Lemo 00                      | 001-9350 |
| Probe 5MHz 6mm 1/4" Lemo 00 (Probe) - Lemo 00 (Gauge)          | 001-9308 |
| Probe 5MHz 13mm 1/2" BNC (Probe) - Lemo 00 (Gauge)             | 002-9317 |
| Probe 5MHz 13mm 1/2" Lemo 00 (Probe) - Lemo 00(Gauge)          | 001-9305 |
| Probe Lead : RG58 Lemo 00 to BNC (length 1.35m, 4'6")          | 001-0402 |
| Probe Lead : RG58 Lemo 00 to Lemo 00 (length 1.35m, 4'6")      | 001-0400 |
| Probe Lead : RG58 BNC to BNC (length 1.35m, 4'6")              | 002-0404 |
| Probe Lead : RG58 (+ Choke) Lemo 00 to Lemo 00 (1.35m, 4'6")   | 001-0436 |
| Probe 2.25MHz 13mm 1/2" BNC (Probe) - BNC (Gauge)              | 002-9302 |
| Probe 2.25MHz 13mm 1/2" Lemo 00 (Probe) - BNC (Gauge)          | 002-9318 |
| Probe 2.25MHz 19mm 3/4" BNC (Probe) - BNC (Gauge)              | 002-9303 |
| Probe 3.5MHz 13mm 1/2" S3C BNC (Probe) - BNC (Gauge)           | 002-9351 |
| Probe 5MHz 6mm 1/4" Lemo 00 (Probe) - BNC (Gauge)              | 002-9309 |
| Probe 5MHz 13mm 1/2" BNC (Probe) - BNC (Gauge)                 | 002-9307 |
| Marinised Probe 2.25MHz 13mm 1/2" - Cyg 2,3,4 Lemo 00,no cable | 001-9378 |
| Marinised Probe 2.25MHz 19mm 3/4" Cyg 2,3,4 Lemo 00 no cable   | 001-9377 |
| Marinised Probe 3.5MHz 13mm 1/2" - Cyg 2,3,4 Lemo 00, no cable | 001-9379 |
| Marinised Probe 5.0MHz 6mm 1/4" - Cyg 2,3,4 Lemo 00, no cable  | 001-9381 |
| Marinised Probe 5.0MHz 13mm 1/2" - Cyg 2,3,4 Lemo 00, no cable | 001-9380 |
| Cable Standard Marinised Underwater priced per metre           | 001-0434 |
| Probe 2.25MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2)              | 001-9325 |
| Probe 2.25MHz 19mm (3/4") for Cygnus 1 IS (Mk1,2)              | 001-9324 |
| Probe 3.5MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2)               | 001-9326 |
| Probe 5.0MHz 6mm (1/4") for Cygnus 1 IS (Mk1,2)                | 001-9329 |
| Probe 5.0MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2)               | 001-9327 |
| Right Angle Probe 2.25MHz 13mm(1/2") for Cygnus 1 IS (Mk1,2)   | 001-9372 |
| Right Angle Probe 3.5MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2)   | 001-9374 |
| Right Angle Probe 5.0MHz 6mm (1/4") for Cygnus 1 IS (Mk1,2)    | 001-9375 |
| Right Angle Probe 5.0MHz 13mm (1/2") for Cygnus 1 IS (Mk1,2)   | 001-9376 |
| Probe 2.25MHz 13mm (1/2") for Cygnus ROV 1km/3km               | 003-9393 |
| Probe 2.25MHz 19mm (3/4") for Cygnus ROV 1km/3km               | 003-9395 |
| Probe 2.25MHz 13mm (1/2") 5m Cable for W1 (Nosecone)           | 001-8317 |



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**page 21 Spare Parts for Cygnus Products**

|  | <i>Order Code</i> |
|--|-------------------|
| Battery Terminals for Cygnus 2, 3 Gauges (Mk3)               | 002-3735          |
| RS232 Data Cable for Cygnus 3 Data Logger (Mk3)              | 003-0423          |
| Battery Cover with Screws for Cygnus 4 (Mk3)                 | 004-3736          |
| Battery Charger (UK) for Cygnus UW / IS Batteries (Mk1,2)    | 001-1520          |
| Battery Charger (US) for Cygnus UW / IS Batteries (Mk1,2)    | 001-1521          |
| Battery Charger (EU) for Cygnus UW / IS Batteries (Mk1,2)    | 001-1522          |
| 'O' Ring Pack for Cygnus HD & IS Gauges (Mk1/2)              | 001-3710          |
| Battery (9 V) Case for Cygnus Heavy Duty (Mk1,2)             | 001-3720          |
| Battery (9 V) Insert Plate for Cygnus Heavy Duty (Mk1,2)     | 001-3721          |
| Battery Case (3 x AA) for Cygnus Heavy Duty (Mk3,4)          | 001-3722          |
| Battery for Cygnus Underwater Gauges (Mk1,2)                 | 001-1519          |
| Lanyard for Cygnus UNDERWATER                                | 001-4822          |
| Silicone Grease (50g Tube)                                   | 001-4861          |
| Cygnus UW (Impulse) to Topside Repeater (Lemo) Umbilical     | 001-0414          |
| Cygnus UW (Impulse) to Topside PC (9D) Umbilical cable       | 001-0413          |
| Test Cable - Impulse to 9 way 'D' Connector with DC Power    | 001-0432          |
| Cygnus 2 HANDS FREE Mk5 Gauge Body only                      | 050-2011/5        |
| Cygnus 2+ HANDS FREE Mk5 Gauge Body only                     | 050-2015/5        |
| Cygnus 2 HANDS FREE Mk4 Gauge Body only                      | 002-7173/4        |
| Cygnus 3 DATA LOGGER Gauge Body only                         | 003-7177/4        |
| Cygnus 4 GENERAL PURPOSE Mk5 Gauge Body only                 | 050-4011/5        |
| Cygnus 4+ GENERAL PURPOSE Mk5 Gauge Body only                | 050-4015/5        |
| Cygnus 4 GENERAL PURPOSE Gauge Mk4 Body only                 | 004-7182/4        |
| Cygnus 6+ PRO Mk5 Gauge body only                            | 050-6011/5        |
| Cygnus 1 INTRINSICALLY SAFE CSA Gauge Body only              | 001-7171-CSA/3    |
| Cygnus 1 INTRINSICALLY SAFE ATEX Gauge Body only             | 001-7171-ATEX     |
| Cygnus DIVE Underwater Thickness Gauge Mk2 Body only         | 001-7255/2        |
| Cygnus DATA LOGGING DIVE UW Thickness Gauge Mk2 Body only    | 001-7259/2        |
| Cygnus UNDERWATER Gauge Body only with TOPSIDE Connector     | 001-7179/4        |
| Cygnus TOPSIDE REPEATER (Instrument Body)                    | 001-7181/4        |
| Cygnus HEAVY DUTY Gauge Body only                            | 001-7170/4        |
| Cygnus ROV Mountable 2000m UTG Gauge Body only               | 001-7189/5        |
| Cygnus ROV Mountable 4000m UTG Gauge Body                    | 001-7191/5        |
| Cygnus MINI ROV Mountable UTG Gauge Body                     | 001-7190/4        |
| Soft Carry Case + foam for C2, 2+,4,4+,6+ Mk5 Gauge Kits     | 050-0105          |
| 2x fixings for neck strap for Cygnus 2,2+,4,4+,6+ Mk5 Gauges | 050-0116          |
| Soft Carry case + foam for Cygnus 2, 3, 4 Mk4 Gauges         | 002-4838          |
| Silicone Sleeve for Cygnus 2 HANDS FREE Mk4 Gauge            | 002-4835          |
| Silicone Sleeve for Cygnus 4 GENERAL PURPOSE Mk4 or TSR      | 004-4835          |
| Belt Clip for Silicone Sleeve for Cygnus 2/3/4 Mk4 Gauges    | 002-4836/4        |
| Neck strap for use with Cygnus 2/3/4 Mk4                     | 002-4841          |
| Cygnus 2/3 Mk3 Leather Case                                  | 002-4817          |
| Leather Case for Cygnus 4 Mk 3                               | 004-4804          |
| Carry Case for Cygnus 4 Mk3/SE                               | 004-4823          |
| Fabric Accessories Pouch                                     | 002-4837/4        |
| Hard Carry Case for Cygnus 1 IS and HD Gauge Kits            | 001-4800          |
| Peli Carry Case for Cygnus 2, 2+ & 4 Mk5 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        |
| Peli Carry Case for Cygnus DIVE MK2 (Yellow)                 | 001-7252/2        |
| Peli Carry Case for Cygnus Underwater Gauge Kit (Yellow)     | 001-4813-UW       |
| Peli Carry Case for Cygnus ROV Gauge Kit (Yellow)            | 001-4813-ROV      |
| Ruck Sack Soft Carry Case for Hatch Sure Kit                 | 006-1009          |
| Protective Pouch with Sling for Hatch Sure Transmitter       | 006-1011          |
| Protective Pouch for Hatch Sure Receiver                     | 006-1014          |
| Waist Strap for Hatch Sure Receiver                          | 006-1015          |
| Leather Instrument Case with Shoulder Strap for Sonaphone    | 009-7408          |
| Cable Black RG58 for Remote Probes per metre                 | 001-0435          |
| Umbilical cable for DIVE / UW / ROV to Topside (per metre)   | 001-0415          |



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**page 22 Cygnus HATCH SURE**

*Order Code*

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| Cygnus HATCH SURE Hatch Cover Leak Detection System   | 006-1001 |
| Hatch Sure Transmitter Unit                           | 006-1010 |
| Hatch Sure Receiver                                   | 006-1012 |
| Inspection Microphone for Hatch Sure (235 x 10mm)     | 006-1020 |
| Inspection Microphone for Hatch Sure (335 x 10mm)     | 006-1021 |
| Microphone Cover for Hatch Sure Inspection Microphone | 006-1018 |
| Emergency Microphone Cable for Hatch Sure Receiver    | 006-1016 |
| Telescopic Extension for Hatch Sure                   | 006-1003 |
| Tripod for use with Hatch Sure                        | 006-1056 |
| TX TriPod Bracket with Velcro                         | 006-1054 |
| BNC Straight Adapter for Hatch Sure Receiver          | 006-1017 |
| Neckband Headphones for Hatch Sure                    | 006-1004 |
| Batteries 6 x AA NiMH MaxE for Hatch Sure Transmitter | 006-1005 |
| Battery PP3 NiMH Max-e for Hatch Sure Receiver        | 006-1006 |
| Battery Charger KH980 for Hatch Sure Kit              | 006-1007 |
| DC Power Lead for Hatch Sure Transmitter              | 006-1008 |
| Orange Protective Boot for Hatch Sure Receiver        | 006-1013 |



