

DATA LOGGER CE-DL-GC/03-1GB



The Data Logger, Model Number CE-DL-GC/03-1GB is designed for subsea use to collect data recording amount of gas that has passed through the Unit and to store approximately 1 litre of gas so that a sample can be obtained for further investigation. This event would be logged on the 1GB memory card. There will be a time and date stamp each time the sample bucket is tilted. The Data Logger can store over one litre of gas in its collector and in turn can be taken back to the surface via the aid of Gas Collector System, model number CE-GC-04VB. This process is normally carried out by an ROV. The Data Logger also has a visual indication (red flashing LED which will flash approximately once per minute and that can be seen 360 degrees) on top of the top hat to show that it is functioning and the housing has not been breached. The Data Logger has enough capacity to capture data for 18 months by its 10 x Lithium Industrial D Cells. In order to read the data the Unit is retrieved, the CF Storage Card is removed and read by a card reader. The data is compatible to PC Windows and can be read by Notepad or Excel.

Dimensions : 430mm high x 315mm triangular. Approx weight in air : 7.5kgs

Pictures below take the user through a procedure of removing the Card and retrieving the data. Do not remove any of the electronics or disturb the batteries when removing the Card.

Turn the Data Logger upside down, remove the three 8mm allen key bolts. This will remove the base plate. Keep washers and bolts in a safe place.



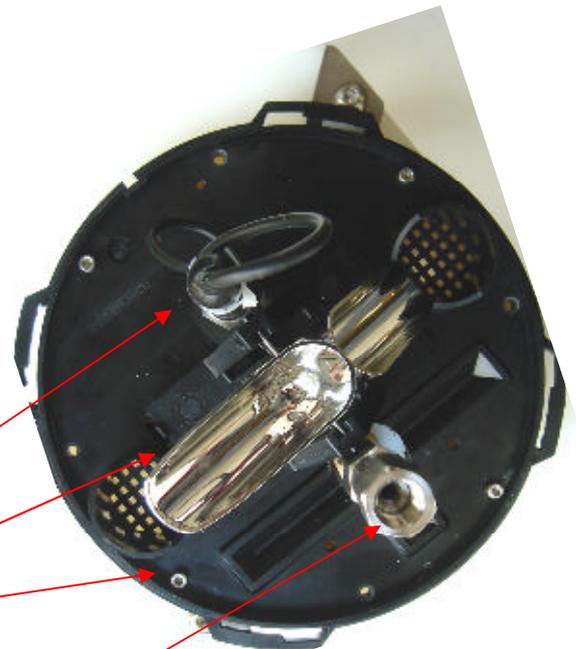


Twist the Bucket anti-clockwise 10 degrees holding the Middle Securing Flange until the slots line up. Then lift the Bucket up gently.

Middle Securing Flange

Line up the Spacers to remove the Bucket

As can be seen on the right hand side, this is a fragile tipping mechanism which consists of two Buckets connected side by side. This must be free to move like a see-saw. Be careful not to disturb or knock the mechanism. Remove four 4mm bolts, pull up the Subsea Connector gently and lift the whole mechanism mounting chassis.



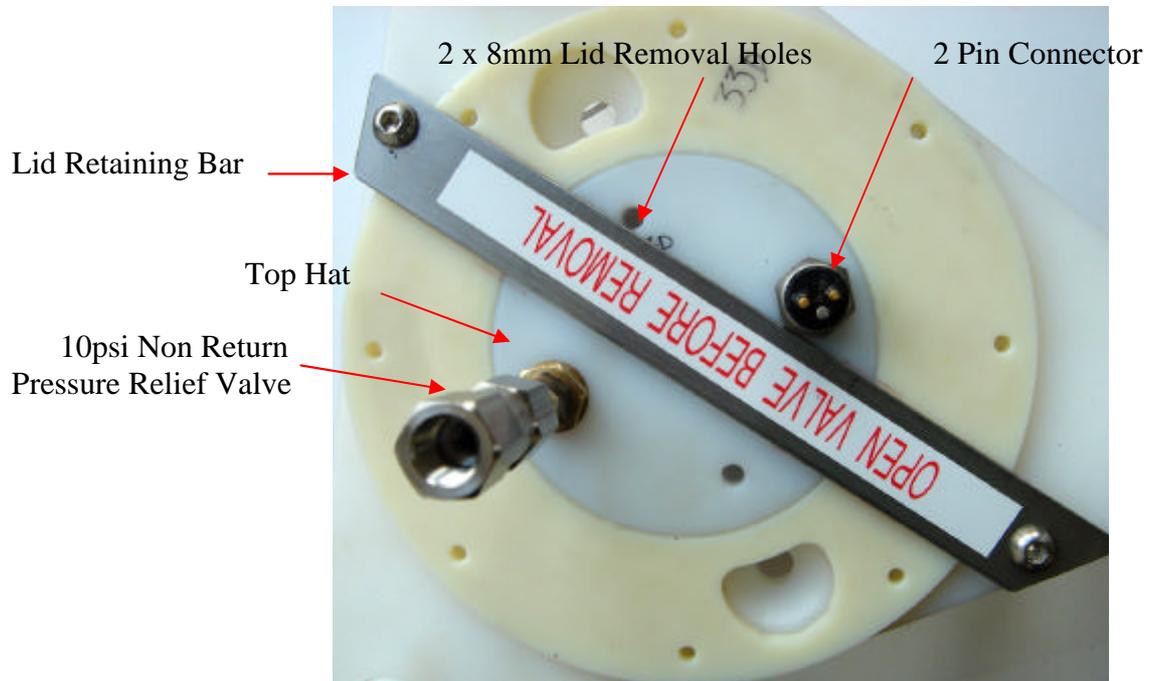
2 pin Subsea Connector

Tipping Mechanism

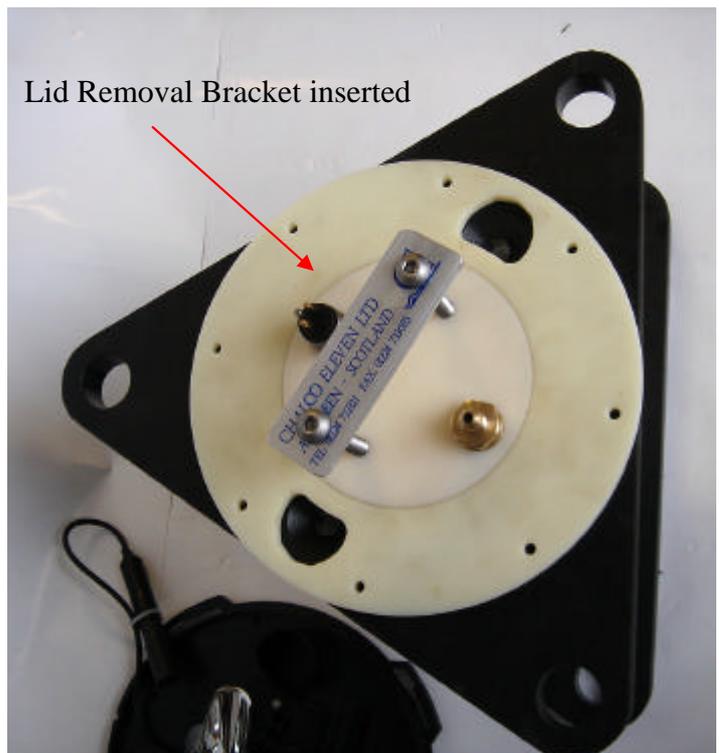
4 x 4mm Bolts

10psi Pressure Relief Valve

Remove the 10psi Pressure Relief Valve by undoing the very bottom of the Adaptor (see picture on page 4). This will make sure there is no pressure in the Pod. Remove the lid retaining bar which is achieved by undoing the 2 x 8mm screws at either end of the bar. Insert the two bolts in to the removal holes with the bracket supplied and pull up on the lid. Once the lid is released do not pull the lid more than 6 inches from the Pod as the electronics and batteries are connected to the two pin connector.



Screw in the two 8mm bolts by hand –
Do not use any tools.
Gently holding the Top Hat, lift the
Removal Bracket side to side pulling up
gently. The Lid will slowly rise.
Do not lift the Lid more than 25mm.



Placing a thumb on the RS232 socket, gently slide out the Card pulling up straight. Insert a new Card of the same type, the Unit will automatically format it and create its own file. We recommend that a new set of batteries is used and a good visual check undertaken. Re-grease the 'O' Ring. On reassembly, make sure all leads are in centre of Pod and the lid is flat with the Top Hat. Retrace the steps in reverse order.

