



British Approvals Service for Electrical Equipment in Flammable Atmospheres

Certificate of Conformity

BAS No Ex 93C2037X

1.

3. This certificate is issued for the electrical apparatus:

AN OXYGEN SENSOR TYPE D2615

4. manufactured and submitted for certification by:

KDG MOBREY LTD of Slough, Berkshire, SL1 4DN

- 5. This electrical apparatus and any acceptable variation thereto is specified in the Schedule to this Certificate and the documents therein referred to.
- 6. BASEEFA being an Approved Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC) certifies that the apparatus has been found to comply with harmonised European Standards

EN50 014 (1977) + Amendments 1 to 5 EN50 020 (1977) + Amendments 1 and 2

and has successfully met the examination and test requirements as recorded in confidential Report

No 93(C)033 dated 12 February 1993

7. The apparatus marking shall include the code

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File No: EECS 0131/02/031



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Electrical Equipment Certification Service
Health and Safety Executive
amoun Hill Buston Derbyshire, SK17,91N, United Kinedor

Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom Tel: 0298 26211 Fax: 0298 79514 Telex: 668113 RLSD G





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- 8. The manufacturer of the electrical apparatus referred to in this certificate, has the responsibility to ensure that the apparatus conforms to the specification laid down in the Schedule to this certificate and has satisfied routine verifications and tests specified therein.
- 9. This apparatus may be marked with the Distinctive Community Mark specified in Annex II to the Council Directive of 16 January 1984 (Doc 84/47/EEC). A facsimile of this mark is printed on sheet 1 of this certificate.

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This certificate is granted subject to conditions applicable to the Approval Service, it does not necessarily indicate that the apparatus may lawfully be used in particular industries or circumstances.



Electrical Equipment Certification Service
Health and Safety Executive

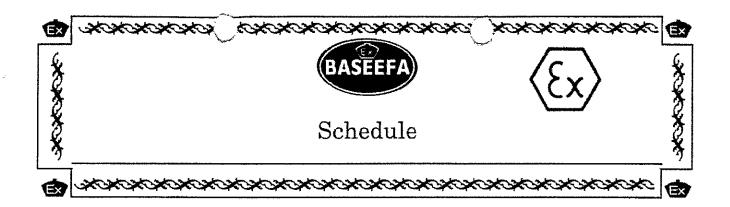
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## Certificate of Conformity BAS No Ex 93C2037X dated 17 March 1993

## **APPARATUS**

An Oxygen Sensor Type D2615 is designed to measure the oxygen concentration in the atmosphere within a tank.

It comprises a drum containing the main electronics, display, and control switches, plus a sensor head which is connected to the main unit by a special tape wound on a reel. The tape incorporates conductors for connection of the sensor circuit, and a graduated scale to provide depth indication.

The apparatus is powered by an internal 9V battery, and the enclosure provides a degree of protection in excess of IP20.

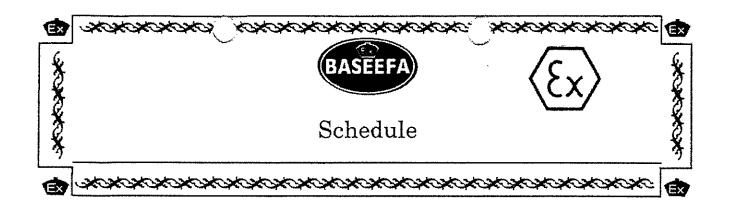
The Oxygen Sensor is specifically designed to measure low levels of oxygen concentration (normally below 8%) in a mixture, and to provide audible and visual warning if concentrations exceed 8%, but are less than 18%. Oxygen readings between 18% and 21% are displayed visually.

#### **DRAWINGS**

Number	Issue	Date	Description
71097/810	Α	8.11.91	GA and Label
71097/815	A	19.11.91	Sensor GA
71097/819	В	8.12.92	Circuit Diagram
71097/816	В	15.12.92	Hub Details (PCB & Battery)

### SPECIAL CONDITIONS FOR SAFE USE

- 1 This certificate covers the use of the sensor to indicate oxygen concentrations in the range 0 to 21% only.
- This certificate does <u>not</u> approve the apparatus for use in concentrations of oxygen in air greater than the normal ambient of 21%.
- 3 The apparatus is not intended or approved for the determination of conditions required for safe human occupancy.



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- 4 Attention is drawn to the possible hazard due to electrostatic charges which may be held by the liquid in the tank:
  - 4.1 The apparatus <u>must</u> be connected to the tank earth before and during introduction into the tank. This connection must not be removed until after the apparatus has been completely withdrawn from the tank at the end of the measuring operation.
  - 4.2 It is anticipated that the user will have specific operating methods laid down to ensure safety when introducing apparatus such as this into a tank. In this case the users operating instructions should be observed.
  - 4.3 In the absence of such instructions, the following should be noted:
  - a) If an earthed sounding tube or pipe is provided, the probe should be entered into the tank within this tube.
  - b) The advice of the appropriate legislative authority for the installation should be obtained.