



LABORATORIO OFICIAL J. M. MADARIAGA

1.- CERTIFICATE OF CONFORMITY

2.- Apparatus for detection and measurement of gases

3.- Real Decreto 2367/1985 de 22 de Noviembre de 1985

4.- LOM 16MOGA3172

5.- Type of Device:

Equipment for detection and measurement of the concentration of carbon monoxide.

6.- Trade name: ZAFIRCO

7.- Applicant: COFEM S.A.

Address: Crta. Molins de Rei a Rubí Km, 8.4
08191 Rubí (Barcelona)

8.- Manufacturer: COFEM S.A.

Address: Crta. Molins de Rei a Rubí Km, 8.4
08191 Rubí (Barcelona)

9.- This equipment and any acceptable variants, is specified in the Annex to this certificate and in the descriptive documents quoted in this annex.

10.- Laboratorio Oficial J.M. Madariaga (LOM), CERTIFIES:

— This equipment conforms to the Standard UNE 23.300:1984 "Equipment for detection and measurement of the concentration of carbon monoxide".

— Having prepared, developed a confidential protocol of the verifications and tests carried out, reference **LOM 16.154 IP**.

11.- By the act of supplying the marked equipment as specified in section A6 of the annex, the applicant attests under its own responsibility that it conforms to the descriptive documents, quoted in the Annex to this certificate.

12.- Labeling must be visible, legible and durable.

13.- If an X sign appears after the number of the certificate of conformity, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

Getafe,

Head of the Gas Detector Laboratory

LABORATORY DIRECTOR

(This document may only be reproduced in its entirety and without changes)

Pág. 1/2

UNIVERSIDAD POLITÉCNICA DE MADRID
ENSAYOS E INVESTIGACIONES DE MATERIALES Y EQUIPOS PARA ATMÓSFERAS EXPLOSIVAS Y MINERÍA
(Real Decreto 334/1992 de 3 de Abril - BOE 1992-04-29)





LABORATORIO OFICIAL J. M. MADARIAGA

(A1) ANNEX

(A2) LOM 16MOGA3172

(A3) Designation of the Certified Equipment:

Equipment for detection and measurement of the concentration of carbon monoxide: ZAFIRCO

(A4) Description of the Certified Equipment:

ZAFIRCO is a fixed system for detection and measurement of the concentration of carbon monoxide. Its power supply is mains powered at 220 V, with the possibility of alternatively installing a backup battery. It consists of a control and switchable alarms panel connected by 2 wire cable to 4 module lines (sets) of carbon monoxide detectors, each module line consisting of a maximum of 25 detectors.

ZAFIRCO include the model of carbon monoxide sensor COsensor brand SCO model. The SCO detector out gas sampling by diffusion. Additionally they detect and measure concentrations of carbon monoxide in air in the range of (0-300) ppm, with a resolution of 1 ppm. The SCO detector includes the FIGARO sensor, model TGS 5042, using electrochemical sensor technology. The system has five actuation signals; four dry contact outputs (two outputs for ventilation, one output for alarm indication and one output for fault indication), and one output for auxiliary power 30 Vdc 1A.

(A5) Descriptive Documents

Descriptive memory ZAFIRCO. (Ref. ZAFIRCO)

– Installation and user manual for ZAFIRCO. (Ref. MAR 16)

– Descriptive memory SCO. (Ref. SCO)

(A6) Markings of the Certified Equipment:

The labeling must be visible, legible and durable; it should include the following indications:

– COFEM S.A.

– ZAFIRCO

– LOM 16.MOGA3172

– Serial number:

(A7) Individual tests and verifications:

Calibration in accordance with paragraph 3.7 of the UNE 23.300: 1984.

(A8) Special conditions for safe use:

None

(A9) Additional Terms:

None

PCER 17/2

(This document may only be reproduced in its entirety and without changes)

Pág. 2/2

