



LABORATORIO OFICIAL J. M. MADARIAGA

1.- CERTIFICATE OF CONFORMITY

2.- Apparatus for detection and measurement of gases, Royal Decree 2367/1985, 22 november 1985

3.- **LOM 08MOGA3532**

4.- Type of Device and Trade name:

Equipment for detection and measurement of the concentration of carbon monoxide CMD500.

5.- Applicant: **DETNOV SECURITY S.L.**

Address: **Industrial State Can Humet de Dalt
Santiago Rosinyol, 14, Industrial Plant B1
08213 Barcelona**

6.- Manufacturer: **DETNOV SECURITY S.L.**

Address: **Industrial State Can Humet de Dalt
Santiago Rosinyol, 14, Industrial Plant B1
08213 Barcelona**

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

8.- Laboratorio Oficial J.M. Madariaga (LOM), Control Body by the Community of Madrid in the field of Royal Decree 2367/1985, 22 november 1985, **CERTIFIES:**

– This equipment conforms to the Standard UNE 23.300:1984+1M:2005

– Having prepared, developed a confidential protocol of the verifications and tests carried out, reference **LOM 07.259 FP**.

9.- 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.

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

11.- 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.

Madrid, october 28, 2008

THIS CERTIFICATE IS A LITERAL TRANSLATION OF THE ORIGINAL DATED ON 28 OCTOBER 2008

José Luis Lorenzo Bayona
Head of the Gas Detector Laboratory

Javier García Torrent
LABORATORY DIRECTOR

RCPOIN 49/2/1

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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)



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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) ANNEX

(A2) CERTIFICATE OF CONFORMITY LOM 08MOGA3532

(A3) Designation of the Certified Equipment:

Equipment for detection and measurement of the concentration of carbon monoxide CMD500

(A4) Description of the Certified Equipment:

Fixed system for detection and measurement of the concentration of carbon monoxide. It consists of a control and switchable alarms board CMD-501, CMD502 and CMD-503 - for two or three detection zones - of zone module MMD-510 and of remote sensors DMD-500 and DMDP-500. Each zone module can feeds and control digitally up to 32 remote sensors that use electrochemical technology. Each sensor has two measuring electrodes FIGARO brand, model TGS5042. This sensor carry out gas sampling by diffusion and measures carbon monoxide concentrations in the range (0-300) ppm, with a one ppm resolution.

It has a numerical display that shows the reading of the concentration and the settings for extraction, alarm and other parameters. It has three programmable control outputs, as well as various status indicators and acoustic alarms.

(A5) Descriptive Documents

- Administrative identification V00-R01 (3 pp) 01/10/2008
- System definition V01_R01 (3 pp) 01/10/2008
- Definition of power supply requirement V01_R01 (3 pp) 01/10/2008
- Monoxide manual V4 (17 pp) 16/10/2008
- Detector CO 500_01_sch_detector_CO_V01_R01 (1 pp) 21/09/2007
- Detector CO 500_01_sch_detector_CO_caja V00_R00 (1 pp) 22/09/2008
- PCB detector 34150001V1 (4 pp) 01/10/2008
- PCB detector 34150100 (4 pp) 01/10/2008
- Component list Detector CO DMD500 V00_R01 (3 pp) 01/10/2008
- Component list Detector CO CajaDMD500 V00_R00 (3 pp) 01/10/2008
- Module 510_00_SCH_MODULE_MONOXIDE V00_R01 (8pp) 18/02/2008
- PCB Module Monoxide 34151000 (5 pp) 01/10/2008
- Switchboard Component List CO V00_R01 (5 pp) 01/10/2008
- Monoxide system marking V00_R01 (3 pp) 01/10/2008
- Mechanical drawings 070423 Front case rev2 (1 pp) 25/06/2007
- Mechanical drawings 070606 Rear case rev3 (1 pp) 02/08/2007
- Mechanical drawings of remote sensors (4 pp) 23/10/2008
- Detector software DMD500-DMDP500 V01_R00 (22 pp) 22/10/2008
- Module software MMD510 V01_R00 (52 pp) 22/10/2008

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) ANNEX

(A2) CERTIFICATE OF CONFORMITY LOM 08MOGA3532

(A6) Markings of the Certified Equipment:

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

– Detnov CMD500

– Serial number:

– LOM 08MOGA3532

(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