

## (1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 02ATEX2323**

(4) Equipment or protective system: **Gaschromatograph Type ENCAL 2000 PGC**

(5) Manufacturer: **Instromet B.V.**

(6) Address: **Mustermanstraat 6, 7064 KA Silvolde, The Netherlands**

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential report no. 2024889.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014 : 1997**

**EN 50018 : 2000**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:



**II 2 G EEx d IIB T3**

Arnhem, 29 January 2003  
KEMA Quality B.V.



T. Pijpker  
Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change

## SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 02ATEX2323

(15) **Description**

The Gaschromatograph Type ENCAL 2000 PGC consists of an aluminium electronics housing and heater/detector-block assembly, both forming a flameproof enclosure "d".  
The ENCAL 2000 PGC is used to perform a quantitative analysis of gas mixtures.

Ambient temperature range -20 °C ... +55 °C.

**Electrical data**

Power supply ..... 110-130 Vac / 220-240 Vac, max. 185 W

**Installation instructions**

The cable entries and closing elements of unused openings shall be certified in type of explosion protection flameproof enclosure "d" suitable for the conditions of use and correctly installed.

For external earthing or bonding connection a cable lug shall be used so that the conductor is secured against loosening and twisting and that the contact pressure is assured.

**Routine tests**

Each detector-block with welded capillary tubes must be submitted to the routine test according to Clause 16 of EN 50018, with a test pressure of 4,7 bar, during 1 minute.

(16) **Report**

KEMA No. 2024889.

(17) **Special conditions for safe use**

None

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

1. Certificate of Conformity KEMA No. Ex-01.E.2047

dated

2. Drawing No. RE 4409

03.10.2002