KEMA

(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 04ATEX2012**

(4) Equipment or protective system: **Oxygen Transmitter Oxymitter 4000 Model OXT4C, Oxymitter 5000 Model OXT5C and Oxymitter DR Model OXT4CDR**

(5) Manufacturer: **Rosemount Analytical Inc., Process Analytic Division**

(6) Address: **1201 North Main Street, Orrville, Ohio 44667-0901 USA**

(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. 2061209

(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 + H_2 T6 (electronics housing)
T1 or T2 (probe)

Arnhem, 12 February 2004
KEMA Quality B.V.

C.G. van Es
Certification Manager

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ACCREDITED BY THE DUTCH COUNCIL FOR ACCREDITATION

(13) # SCHEDULE

(14) **to EC-Type Examination Certificate KEMA 04ATEX2012**

(15) **Description**

The Oxygen Transmitters Oxymitter 4000 Model OXT4C, Oxymitter 5000 Model OXT5C and Oxymitter DR Model OXT4CDR measure the oxygen concentration in industrial flue gas streams for combustion process control.

The probes of the Oxymitter 4000 Model OXT4C, Oxymitter 5000 Model OXT5C and Oxymitter DR Model OXT4CDR with 115 Vac input have temperature class T2. The probe of Oxymitter DR Model OXT4CDR with 44 Vac input has temperature class T1.

Ambient temperature range -40 °C ... +70 °C

Electrical data

	Oxymitter 4000 Model OXT4C	Oxymitter 5000 Model OXT5C	Oxymitter DR Model OXT4CDR
Rated voltage	90 – 250 Vac	90 – 250 Vac	115 Vac or 44 Vac
Rated power	500 VA	500 VA	500 VA

Installation instructions

The cable entry devices and blanking elements of unused apertures shall be of a certified flameproof type, suitable for the conditions of use and correctly installed.

Routine tests

Each probe compartment shall be subjected to an overpressure test according to EN 50018, clause 16, using a test pressure of 75 bar during one minute. The enclosure shall withstand the pressure without suffering permanent deformation of the joints or damage to the enclosure.

Routine tests are not required for the electronics housing since the type test has been made at a static pressure of four times the reference pressure.

(16) **Report**

KEMA No. 2061209

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

None.

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

Covered by the standards listed at (9)

(19) **Test documentation**

1. EC-Type Examination Certificate LCIE 02ATEX6155

		dated
2. Drawing No.	6R00013, rev. 1 (sheets 1 to 6)	22.09.2003
	6R00014, rev. 1 (sheets 1 to 6)	22.09.2003
	6R00015, rev. 1 (sheets 1 to 5)	22.09.2003

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AMENDMENT 1

to EC-Type Examination Certificate KEMA 04ATEX2012

Manufacturer: **Rosemount Analytical Inc., Process Analytic Division**

Address: **1201 North Main street, Orrville , Ohio 44667-0901 USA**

Description

The Oxygen Transmitter models OXT4C and OXT5C have been extended to include split architecture configuration and to add model 6A00094G06, Oxymitter 4000 with standalone remote electronics with HART communication, and model 6A00094G05, Oxymitter 5000 with standalone remote electronics with Foundation Fieldbus communication.

The equipment marking of the remote electronics equipment shall include the following code:

⟨Ex⟩ **II 2 G EEx de IIB+H_2 T6**

Compliance with the Essential Health and Safety Requirements has been additionally assured by compliance with:

EN 50019 : 2000

The remote electronics enclosure provides a degree of ingress protection of at least IP54 as per EN 60529.

Installation instructions

The degree of protection of the junction box of at least IP54 is only achieved if certified cable entries are used that are suitable for the application and correctly installed.

Routine tests

The junction box shall be subjected to an electric strength test according to EN 50019, clause 6.1, using a test voltage of 1500 V, applied during 1 minute, between the terminals and enclosure. Alternatively, the test voltage may be increased with a factor of 1,2, using an application time of 3 to 5 seconds. The apparatus shall pass the test without breakdown.

Routine tests according to Clause 16 of EN 50018 are not required for the remote electronics housing since the type test has been made at a static pressure of four times the reference pressure.

All other data remain unchanged.

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AMENDMENT 1

to EC-Type Examination Certificate KEMA 04ATEX2012

Test documentation

1. EC-Type Examination Certificate PTB 97ATEX1047 U
   PTB 99ATEX3117 U

		dated
2. Drawing	No. 6R00013 rev. 2, sheet 1 to 9	15.01.2004
	No. 6R00014 rev. 2, sheet 1 to 9	15.01.2004

Arnhem, 26 March 2004
KEMA Quality B.V.

T. Pijpker
Certification Manager