



EC-Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 06 ATEX 0203

- (4) Equipment or protective system: **X-STREAM FP – Gas analyzer**
- (5) Manufacturer: **EMERSON PROCESS MANAGEMENT GMBH & CO. OHG**
- (6) Address: **Industriestr. 1, 63594 Hasselroth, Germany**
- (7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical Technical Testing Institute, notified body number 1026 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 N°


06/0203 dated 20 September 2006

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 50014:1997+A1+A2 EN 50016:2002
- (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 testing of the specified equipment or protective system in accordance 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 following:

 **II 2G EEx p II T4**

This EC-Type Examination Certificate is valid till: **31.10.2011**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 16.10.2006

Number of pages: 3

Page: 1/3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 06 ATEX 0203**

(15) Description of Equipment or Protective System:

The X-STREAM FP series of gas analyzers offers single or dual channel gas analysis. The analyzer is installed in a box with type of Ex-protection "pressurized enclosure" EEx p II". The box is equipped with a glass window for an alphanumeric LCD or VFD display. Outside the box are further installed: purging unit type F850S in explosion construction EEx em [ib] IIC T6, certified by DMT 99 ATEX E 003, solenoid valve type 7... in explosion construction EEx m II T4, certified by PTB 00 ATEX 2202X, cable gland type M 20x1,5 in explosion construction EEx e II certified by DMT 03 ATEX E 051 resp. cable gland type HSK... in explosion construction EEx e II certified by KEMA 99 ATEX 6971X and plug and reduction M... x 1,5 in explosion construction EEx e II certified by DMT 03 ATEX E 049.

Characteristics of purged enclosure:

Application: Measurement of	a) Flammable gases	b) Non-flammable gases or flammable gases with infallible containment
Internal free volume:	35 l	35 l
Minimum purging flow rated:	2 l/s	2 l/s
Minimum purging duration:	10 min.	10 min.
Minimum overpressure:	14 mbar	min. 1 mbar
Maximum overpressure:	25 mbar	25 mbar
Maximum leakage rate from the pressurized enclosure:	0,25 l/s	0,25 l/s
Maximum inlet pressure to the containment system:	12 mbar	<1500 mbar
Ambient temperature:	-20 °C ≤ T _{amb} ≤ +50 °C	

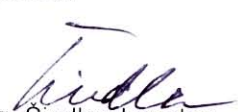
(16) Report No. : 06/0203

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (9) of this certificate.

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



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Page: 2/3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 06 ATEX 0203**

(19) **LIST OF DOCUMENTATION**

Manual		dated September 2006
Drawings No.	4.300-5152/3-sheet 1	dated 1.8.2006
	4.300-5152/3-sheet 2	dated 2.8.2006
	4.271-6414/1	dated 19.5.2005
	4.271-6415/1	dated 19.5.2005
	4.271-6420/2	dated 19.5.2005
	4.271-6526/2	dated 19.7.2005
	4.271-6659/1	dated 23.3.2006
	4.271-6749/4	dated 25.09.2006

