CAT 100
CAT 200
Continuous Analyzer Transmitter
ESSENTIAL INSTRUCTIONS
READ THIS PAGE BEFORE PROCEEDING!

Emerson Process Management (Rosemount Analytical) designs, manufactures and tests its products to meet many national and international standards. Because these instruments are sophisticated technical products, you MUST properly install, use, and maintain them to ensure they continue to operate within their normal specifications. The following instructions MUST be adhered to and integrated into your safety program when installing, using and maintaining Emerson Process Management (Rosemount Analytical) products. Failure to follow the proper instructions may cause any one of the following situations to occur: Loss of life; personal injury; property damage; damage to this instrument; and warranty invalidation.

- Read all instructions prior to installing, operating, and servicing the product.
- If you do not understand any of the instructions, contact your Emerson Process Management (Rosemount Analytical) representative for clarification.
- Follow all warnings, cautions, and instructions marked on and supplied with the product.
- Inform and educate your personnel in the proper installation, operation, and maintenance of the product.
- Install your equipment as specified in the Installation Instructions of the appropriate Instruction Manual and per applicable local and national codes. Connect all products to the proper electrical and pressure sources.
- To ensure proper performance, use qualified personnel to install, operate, update, program, and maintain the product.
- When replacement parts are required, ensure that qualified people use replacement parts specified by Emerson Process Management (Rosemount Analytical). Unauthorized parts and procedures can affect the product’s performance, place the safe operation of your process at risk, and VOID YOUR WARRANTY. Look-alike substitutions may result in fire, electrical hazards, or improper operation.
- Ensure that all equipment doors are closed and protective covers are in place, except when maintenance is being performed by qualified persons, to prevent electrical shock and personal injury.

The information contained in this document is subject to change without notice.

2nd edition 07/2005
1st edition 07/2004
PREFACE

This instruction manual provides information about installing, operating and maintaining/servicing CAT series gas analyzers in hazardous (classified) areas and shall be read in conjunction with the standard analyzer instruction manual only!

This instruction manual covers all analyzer variations and and therefore may describe configurations and/or options not part of your specific instrument.

DEFINITIONS

The following definitions apply to WARNINGS, CAUTIONS and NOTES found throughout this publication.

WARNING

Highlights an operation or maintenance procedure, practice, condition, statement, etc.
If not strictly observed, could result in injury, death, or long-term health hazards of personnel.

CAUTION

Highlights an operation or maintenance procedure, practice, condition, statement, etc.
If not strictly observed, could result in damage to or destruction of equipment, or loss of effectiveness.

NOTE

Highlights an essential operating procedure, condition or statement.

Further graphical symbols may be used within this manual:

- Elektrostatic discharge (ESD)
- Explosion Hazard!
- Heavy Instrument!
- Harmful (to Health)!
- Toxic!
- Disconnect from Mains!

All graphical symbols used in this product are from one or more of the following standards: EN61010-1, IEC417, and ISO3864.
SAFETY INSTRUCTIONS

INTENDED USE STATEMENT
CAT series gas analyzers are intended to be used as analyzers for industrial purposes. They must not be used in medical, diagnostic or life support applications, and no independent agency certifications or approvals are to be implied as covering such applications!

SAFETY SUMMARY
If this equipment is used in a manner not specified in these instructions, protective systems may be impaired.

AUTHORIZED PERSONNEL
To avoid explosions, loss of life, personal injury and damage to this equipment and on-site property, do not install, operate or service this instrument before reading and understanding this instruction manual and receiving appropriate training. Save these instructions.

ADDITIONAL LITERATURE
This manual covers aspects specific for using CAT analyzers in hazardous (classified) areas, only.

To install, start-up, operate and maintain/service the instrument in a safe manner it is MANDATORY to read all additional instruction manuals shipped together with the instrument!

The following instruction manuals are available and/or referenced within this manual at hand:

**CAT 100:**
- HAS1xE-IM-HS: Instruction manual BINOS 100 series

**CAT 200:**
- HAS3xE-IM-HW: Hardware instruction manual NGA MLT series
- HAS3xE-IM-SW39: Instruction NGA MLT software V 3.9.x
  (Software instruction manual depends on currently installed analyzer software of the internal NGA MLT module)

Contact your local service center or sales office when missing documents. Save all instructions for future use!
PARTS INTEGRITY AND UPGRADES
Tampering with or unauthorized substitution of components may adversely affect the safety of this instrument. Use only factory approved components for repair.

Because of the danger of introducing additional hazards, do not perform any unauthorized modification to this instrument.


POSSIBLE EXPLOSION HAZARD
Do not open instrument when energized.
Ensure that external circuitry is disconnected or de-energized before opening the instrument.
Ensure that all gas connections are made as labeled and are leak free. Improper gas connections could result in explosion and death.
HOW TO STAY IN COMPLIANCE WITH THE EUROPEAN DIRECTIVE 94/9/EC („ATEX“) WHEN PERFORMING GAS ANALYSIS WITHIN A FLAMEPROOF ENCLOSURE.

Special conditions apply to using a flameproof enclosure analyzer under the scope of the "European Directive for Equipment used in Explosive Atmosphere" (Directive 94/9/EC; ATEX). To stay compliant to the directive please consider the following clarification sheet released by the European ATEX Notified Body Group:

WARNING
POSSIBLE EXPLOSION HAZARD

The CAT analyzer may utilize not only sample gas but one or more pressurized carrier gases and/or calibration gases.

If an internal flowmeter is not used, an external flowmeter is required for flow control. Legislative requirements and instructions for installation in hazardous (classified) areas must be considered.

WARNING
POSSIBLE EXPLOSION HAZARD

When installing these instruments all legislative requirements must be taken into consideration! Take care of the special conditions given within the instruction drawing in the manual on hand!
Safety Instructions

European ATEX Notified Bodies Group

Interpretation/Clarification Sheet N° 99/06/069/CS Edition 1.0

Status: 
- Step* 5.2.1 question ExNB/98(IECS)002  
- Step* 5.2.3 proposal  
- Step* 5.2.4 received for publication  

Date: 20/04/98  
Proposer: DMT  
Received for publication: 15-16/06/99

*Step refers to ExNB Rules

SUBJECT: EN 50018 : 1994  
Gas analysis performed within a flameproof enclosure

Question: What restrictions are necessary on the contents of the gas system/process line in order to validate the use of "Flameproof Enclosure" as the protection concept.

Answer:
1. Oxygen shall be present in the process line only as a constituent of an inert/oxygen gas mixture of which the oxygen represents no more than that normally present in air.

2. The gas mixture in process line shall not be within the explosive limits continuously, for long periods or frequently.
   - If the gas mixture is above UEL in normal service, gas leakage into the main enclosure due to failure of the gas containment shall not remain undetected for long periods.
   - If the gas mixture is above UEL in normal service and if the gas measuring system contains potential ignition sources (e.g. heated wires) in the process line, the line shall be purged with process gas before the measuring system is activated and the measuring system shall be de-activated before shut down of the process.

3. If the pressure in the process line in normal operation is higher than 1.1 bar, the following applies:
   - The gas mixture shall not be within the explosive limits in normal operation.
   - Even in case of total leakage of the gas containment, the pressure in the main enclosure shall not be higher than 1.1 bar.
   - The process line shall not contain potential sources of ignition and, taking into account the maximum pressure in service, the breathing devices shall be tested with respectively precompressed mixtures.

This ExNB Interpretation/Clarification Sheet has the sole purpose of clarifying the application of the EN Standards and/or of the requirements of Directive 94/9/EC and related documents. It does not in any way change the content of the standards and/or of the requirements. It remains valid until an official answer is received from the European Commission or the relevant standardization bodies.
This product is certified by several agencies for the use in hazardous (classified) areas. The following certification marks appear on the product’s nameplate label:

**Zone classification:**

- **USA**  
  Class I Zone 1 AEx d e m IIB + H2 T4X
- **Canada**  
  Ex d e m IIB + H2 T4X
- **European Union**  
  ATEX, category 2, Zone 1, EEx d e m IIB + H2 T4X

**USA/Canada**

Certified by the Canadian Standards Association, an „OSHA Nationally Recognized Testing Laboratory“ (NRTL) for USA and Canada

**European Union (EU)**


**EC ATEX Type Examination Certificate:** LCIE 00 ATEX 6009 X.

EMERSON Process Management submitted samples for type examination of conformance to an independent Notified Body (Laboratoire Central des Industries Electriques; LCIE), which issued a type examination certificate.

**Analyzer markings:**

The appendix contains a copy of the type examination certificate.
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Chapter 1
Installation

**WARNING**

POSSIBLE EXPLOSION HAZARD

Installing and wiring this instrument must comply with all relevant national legislative requirements and regulations.

Consider all safety instructions within this on hand manual and all associated analyzer instruction manuals!

Take care of the special instructions at the installation drawing at the next page!

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**WARNING**

POSSIBLE EXPLOSION HAZARD

Installing this instrument requires opening the enclosure and working at the open instrument. This is permitted only when both no hazardous atmosphere is present and the instrument and connected external circuitry are de-energized!

Depending on the local regulation this may require a competent hot work supervisor to issue a hot work permit.

More detailed instructions about installing these instruments are given by the associated analyzer instruction manual.
1 Installation

Fig. 1: Installation drawing and analyzer dimensions, inch (mm)

A. EEx e junction box
B. Threads for cable glands for analog and digital signal cables (M16 x 1,5)
C. 11 gas fittings (number depending on application; flame arrestors inside gas inlets and outlets).
D. Optional sample handling system, design depending on applicational needs.

Note:
Junction box must be protected by fuse supply, which has a breaking capacity adjusted to the short circuit of the equipment (10 amps / 250 VAC).
Chapter 2
Startup

Once the CAT analyzer is installed correctly and in accordance to the instructions given in chapter „Installation“ it is prepared for startup.

WARNING
POSSIBLE EXPLOSION HAZARD
Ensure all covers, plugs and housing parts are in place and secured properly before supplying mains and signal voltages!

Ensure all requirements given by the clarification sheet for performing gas analysis within a flameproof enclosure are considered BEFORE supplying gases (see page S-6)!
This sheet gives instructions, too, for the sequence of supplying gases during process and analyzer startup.

After all safety aspects are followed and checked the instrument may be powered and operated according the instructions given in the related instrument’s instruction manual.
2 Startup
CHAPTER 3
SERVICE AND MAINTENANCE

WARNING
POSSIBLE EXPLOSION HAZARD
Inspection, maintenance and service must be carried out considering all related standards (e.g. EN 60079-17 “Inspection and maintenance of electrical installations in hazardous areas (other than mines)”)

WARNING
POSSIBLE EXPLOSION HAZARD
Service or replacement of safety related components or requiring to open the instrument are permitted only if no hazardous atmosphere is present and both the instrument and connected circuitry are de-energized!
Depending on the local regulation this may require a competent hot work supervisor to issue a hot work permit.

WARNING
POSSIBLE EXPLOSION HAZARD
After maintenance or replacement of parts concerning explosion protection an authority on explosion protection has to verify that the analyzer still meets the requirements for explosion protection before it is switched on again.
Parts essential for explosion protection must not be repaired, they have to be replaced if defective!
The authority has to issue a certificate for this and/or attach a test label to the equipment before startup after maintenance or replacement of parts.
3 Service and Maintenance

**WARNING**

**FLAMMABLE GASES - POSSIBLE EXPLOSION HAZARD**

Leaks may cause explosion when measuring flammable gases!

When measuring flammable gases it is recommended to perform a leak test on all gas paths, connections and components before startup or applying power. Leak tests should be carried out on a 2 month's regular basis and after repair/maintenance.

See the analyzer instruction manual for instructions on how to carry out leak tests.

**WARNING**

**FLAMMABLE GASES - POSSIBLE EXPLOSION HAZARD**

When measuring flammable gases it is recommended to purge the system with air or an inert gas, e.g. nitrogen, prior to opening the enclosure.

Violation may cause an explosion!

More detailed instructions about servicing and maintaining CAT analyzers are subject of the associated analyzer instruction manuals.
APPENDIX

This chapter contains series CAT EC declarations of conformity and EC type examination certificates.
A-1 EC Declaration of Conformity

EC DECLARATION OF CONFORMITY

Document number: RAECAT-ATEX-E3
Date: June 2004

We,

Emerson Process Management
Manufacturing GmbH & Co. OHG

located at
Industriestraße 1, D-63594 Hasselroth, Germany

declare under our sole responsibility that our gas analyzer, type
CAT

to which this declaration relates is in conformity with the provisions of:

89/336/EEC EMC Directive (changed by directive 91/237/EEC 92/31/EEC and 93/68/EEC) with the application of the harmonized standards including the latest amendments:

94/9/EC Equipment and protective systems in potentially explosive atmospheres with the application of the harmonized standards including the latest amendments:
EN 50014:1992
EN 50018:1994
EN 50019:1994
EN 50028 :1987

97/23/EC Pressure Equipment Directive
This analyzer has been designed and manufactured considering article 3, paragraph 3 of the above mentioned directive and therefore CE marking does not refer to this directive.

The standards published in the EC’s OFFICIAL JOURNAL with reference to directive 73/23/EC (e.g. EN 61010) have been used to fulfill 1.2.7 of Annex II of directive 94/9/EC to eliminate electrical risks.

This declaration relates to series CAT analyzers intended to be used at hazardous locations. An EC Type Examination Certificate, LCIE 00ATEX 6009 X, has been obtained from a notified body.

Hasselroth, 6/30/2004

[Signature]

Ian Macleod
(Name)

VP Sales & Marketing EMA
(Function name)

This declaration confirms the compliance with amended directives but does not include the assistance of properties.
The safety and installation instructions of the documentation have to be followed.
## A-2 EC Type Examination Certificates

### 1. ATTESTATION D'EXAMEN CE DE TYPE

1. **Appareils et systèmes de protection destinés à être utilisés en atmosphères explosibles**  
   Directive 94/9/CE
2. **Numéro de l'attestation CE de type**  
   LCIE 09 ATEX 6009 X
3. **Appareil ou système de protection**  
   Transmetteur pour analyseur en continu Type CAT ...
4. **Demandeur :** Rosemount Analytical Inc.
5. **Adresse :** 4125 E La Palma Avenue Anaheim, California 92807-1802 USA
6. **Cet appareil ou système de protection et ses variantes éventuelles soumises à une attestation de conformité sont dérivés de l'attestation de conformité ci-dessous**  
   N° 15 098 B/10.
7. **Le AIRC, organisme notifié sous la référence 2001 conformément à l'article 9 de la directive 94/9/CE du Parlement européen et du Conseil du 23 mars 1994, certifie que cet appareil ou système de protection est conforme aux exigences essentielles en ce qui concerne la sécurité et la santé pour la conception et la construction d'appareils et de systèmes de protection destinés à être utilisés en atmosphères explosives, données dans l'annexe II de la directive. Les vérifications et essais figurent dans notre rapport confidentiel N° 15 098 B/10.
8. **Le signe X placé à la suite du numéro de l'attestation, indique que ce matériel ou système de protection est soumis aux conditions spécifiques pour une utilisation aérienne, mentionnées dans l'annexe de la présente attestation.**
9. **Compliance with the Essential Health and Safety Requirements has been assured by compliance with :**  
   - EN 50014 (1992)
   - EN 50019 (1994)
   - EN 50019 (1984)
   - EN 50028 (1987)
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 the certificate.**

### 2. EC TYPE EXAMINATION CERTIFICATE

1. **Equipment or Protective System intended for use in**  
   Potentially explosive atmospheres  
   Directive 94/9/CE
2. **EC type Examination Certificate number**  
   LCIE 09 ATEX 6009 X
3. **Apparatus or Protective system**  
   Continuous Analyzer Transmitter Type CAT ...
4. **Applicant :** Rosemount Analytical Inc.
5. **Address :** 4125 E La Palma Avenue Anaheim, California 92807-1802 USA
6. **This equipment or protective system and any acceptable variation thereto is included in the schedule to this certificate and the documents therein referred to.**
7. **Le signe X placé à la suite du numéro de l'attestation, indique que ce matériel ou système de protection est soumis aux conditions spécifiques pour une utilisation aérienne, mentionnées dans l'annexe de la présente attestation.**
8. **The examination and test results are recorded in confidential report No 15 098 B/10.**
9. **This EC Type examination certificate relates only to the design and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC.**
10. **Further requirements of the Directive apply to the manufacture and supply of this equipment or protective system.**
11. **The marking of the equipment or protective system shall include the following :**
   - 0381 II 2 G
   - EEEx d e m IIB + H2 T4

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Fontenay-aux-Roses, le 2 mai 2000  
Le Directeur de l'organisme certificant  
Manager of the Certification body  

Par délégation  
Michel BRÉNON  
Directeur adjoint  
à la Certification  

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(A1) ANNEXE

(A2) ATTESTATION D’EXAMEN CE DE TYPE
LCIE 00 ATEX 6009 X

(A4) Description de l’équipement ou du système de protection

Le type CAT (Transmetteur pour analyseur en continu) présente une conception complètement modulaire incluant une enveloppe antidéflagrante et une boîte de sécurité augmentée.

L'alimentation électrique (puissance et communications) se fait dans la boîte de jonction de sécurité augmentée.

Les connections entre la boîte de sécurité augmentée et la boîte antidéflagrante se font à travers 3 traversées de cloisons EEx scellées.

La liaison entre les bornes de sécurité augmentée EEx e et les traversées de cloisons EEx d comprend un filtre/Ferrite EMI protégé par encapsulation EEx e.

Le type CAT a été conçu pour la mesure en continu de 1 à 3 composants dans un seul analyseur.

Tension 115 ou 230 V C.A., 50/60 Hz, Puissance : 180 W

Le marquage sera le suivant :
- Rosemount Analytic Inc.
- Type : CAT
- N° de fabrication :
- Année de fabrication :
- Ex II 2 G
- EEx d + m IIB + H2 T4
- LCIE 00 ATEX 6009 X
- Caractéristiques électriques
  - Température ambiante : + 0 °C à + 50 °C
  - IP65
  - Ne pas ouvrir sous tension

- Prudence : Ne pas mettre en service avant d'avoir lu et compris le manuel d'instructions et sans avoir reçu la formation appropriée.

Le marquage CE est accompagné du numéro d'identification de l'organisme notifié responsable de la surveillance du système de qualité (0881 pour le LCIE).

(A4) Documents descriptifs

Dossier technique du 3 avril 2000.
Ce document comprend 26 rubriques (37 pages).

(A1) SCHEDULE

(A2) EC TYPE EXAMINATION CERTIFICATE
LCIE 00 ATEX 6009 X

(A4) Description of Equipment or Protective System

The model CAT (Continuous Analyzer Transmitter) features a fully modular design housed in a field mountable flameproof (EEx d) and increased safety (EEx e).

Field electrical connections, power and communications, are made to the increased Safety Junction Box.

The connections from the Increased Safety Junction box into the flameproof enclosure are made through three EEx sealed feed throughs.

The connection between the EEx e power terminals and the EEx d sealed feed through, incorporates an EMI filter/Ferrite assembly, protected by encapsulation EEx e.

The CAT has been designed to continuously measure from 1 to 3 components in a single analyzer.

Voltage 115 or 230 V AC, 50/60 Hz, Power : 180 W

The marking will be the following :
- Rosemount Analytical Inc.
- Type : CAT
- Serial number :
- Year of construction :
- Ex II 2 G
- EEx d + m IIB + H2 T4
- LCIE 00 ATEX 6009 X
- Electrical characteristics
  - Ambient temperature : + 0 °C to + 50 °C
  - IP65
  - Do not open while energized

- Caution : Do not operate or service before reading and understanding the instruction manual and receiving appropriate training.

The CE marking shall be accompanied by the identification number of the notified body responsible for surveillance of the quality system (0881 for the LCIE).

(A4) Descriptive documents :

This file includes 26 items (37 pages).
A-2  EC Type Examination Certificates

(A1) SCHEDULE

LCIE 00 ATEX 6009 X (suite)

(A2) EC TYPE EXAMINATION CERTIFICATE

LCIE 00 ATEX 6009 X (continued)

(A5) Special conditions for safe use

The part of the equipment protected by the type of protection "m" must be protected by fuse supply which has a breaking capacity adjusted to the short circuit of the equipment.

(A6) Essential Health and Safety Requirements

The design of the equipment complies with European standards EN 50014, EN 50018, EN 50019 (second edition) and EN 50028 (1987).

The flame-proof enclosure is exempted from routine test.

The part of equipment protected by the type of protection "m" is submitted to the following routine test:

- Visual examination according to the paragraph 7.1 of EN 50028.
- Dielectric strength test according to the paragraph 7.2 of EN 50028.
- Verification of electrical characteristics according to the paragraph 7.3 of EN 50028.
A-2  EC Type Examination Certificates

(A1) ATTESTATION D’EXAMEN CE DE TYPE LCIE 00 ATEX 6009 X du 2 mai 2000
AVENANT 00 ATEX 6009 X/01

(A2) DÉSIGNATION DE L’ÉQUIPEMENT OU DU SYSTÈME DE PROTECTION :
Transmetteur pour analyseur en continu
Type : CAT
Construit par : Rosemount Analytical Inc.

(A3) OBJET DE L’AVENANT, DESCRIPTION DE L’APPAREIL OU DU SYSTÈME DE PROTECTION :
Création d’un deuxième site de production :
Fisher - Rosemount GmbH
Industriestrasse 1
D - 63594 HASSELROTH
GERMANY

(A4) DOCUMENTS DESCRIPTIFS :
1 page

Le dossier de certification relatif à l’attestation CE de type 00 ATEX 6009 X s’applique pour ce nouveau site.

(A5) CONDITIONS SPÉCIALES POUR UNE UTILISATION SÛRE :
Inchangées.

(A6) EXIGENCES ESSENTIELLES EN CE QUI CONCERNE LA SÉCURITÉ ET LA SANTÉ :
Inchangées.

Attestation d’Emerson Process Management Manufacturing GmbH & Co. OHG

(A1) EC TYPE EXAMINATION CERTIFICATE LCIE 00 ATEX 6009 X dated May 2, 2000
VARIATION 00 ATEX 6009 X/01

(A2) NAME OF EQUIPMENT OR PROTECTIVE SYSTEM :
Continuous Analyzer Transmitter
Type : CAT
Manufactured by : Rosemount Analytical Inc.

(A3) SUBJECT OF THE VARIATION, DESCRIPTION OF EQUIPMENT OR PROTECTIVE SYSTEM :
New alternate facility :
Fisher - Rosemount GmbH
Industriestrasse 1
D - 63594 HASSELROTH
GERMANY

Marking : Unchanged, excepted for the new address.

(A4) DESCRIPTIVE DOCUMENTS :

The certification file with reference to the EC type examination certificate 00 ATEX 6009 X is available for the new facility.

(A5) SPECIAL CONDITIONS FOR SAFE USE :
Unchanged.

(A6) ESSENTIAL HEALTH AND SAFETY REQUIREMENTS :
Unchanged.

Fontenay-aux-Roses, le 8 avril 2002

Le Directeur de l’organisme certifiant
Manager of the certification body

Par délégation
Michel BRÉNON
Directeur adjoint

A-6  Emerson Process Management Manufacturing GmbH & Co. OHG
CAT

A-2 EC Type Examination Certificates

(A1) ATTESTATION D'EXAMEN DE TYPE LCIE 00 ATEX 6009 X du 2 mai 2000
AVENANT LCIE 00 ATEX 6009 X/02

(A2) DESIGNATION DE L'EQUIPEMENT DU SYSTEME DE PROTECTION:
Transmetteur pour analyseur en continu
Type : CAT.

Construit par: EMERSON PROCESS Management

(A3) OBJET DE L'AVENANT, DESCRIPTION DE L'APPAREIL OU DU SYSTEME DE PROTECTION:
- Changement de raison sociale et de l'adresse du demandeur qui deviennent:
  EMERSON PROCESS Management
  Manufacturing GmbH & Co. OHG
  Industriestraße 1
  63594 HASSELROTH
  ALLEMAGNE
- Modifications du panneau de commandes pour que les touches soient rendues activables magnétiquement.

Modification du marquage:
Raison sociale et adresse remplacées par:
EMERSON PROCESS Management
Manufacturing GmbH & Co. OHG
Industriestraße 1
63594 HASSELROTH
ALLEMAGNE

(A4) DOCUMENTS DESCRIPTIFS:
Ce dossier comprend 11 rubriques (23 pages).

(A5) CONDITIONS SPECIALES POUR UNE UTILISATION BURE:
Inchangées.

(A6) VERIFICATIONS ET EPREUVES INDIVIDUELLES:
Inchangées.

(A7) EXIGENCES ESSENTIELLES EN CE QUI CONCERNE LA SECURITE ET LA SANTE:
Forterreux-aux-Roses, le 4 septembre 2003

Le Directeur de l'Organisme certificateur
Manager of the certification body

Signature

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Emerson Process Management Manufacturing GmbH & Co. OHG A- 7
(A1) ATTESTATION D'EXAMEN CE DE TYPE
LCIE 00 ATEX 6009 X du 2 mai 2000
AVENANT LCIE 00 ATEX 6009 X/03

(A2) DÉSIGNATION DE L'ÉQUIPEMENT OU DU SYSTÈME DE PROTECTION :
Transmetteur pour analyseur en continu
Type: CAT.
Construit par: EMERSON PROCESS Management

(A3) DU L'AVENANT: DESCRIPTION DE L'APPAREIL OU DU SYSTÈME DE PROTECTION :
- Mise à jour des documents techniques ne remettant pas en cause les modes de protection.
- Remplacé d'un bouchon entre la boîte de connexion et la boîte de sécurité augmentant par une zone de dérivation en laissant la mise en place d'un bouchon de sécurité et offrant une nouvelle possibilité d'embrayage de signal.
- Ajout d'un perçage supplémentaire sur la boîte de sécurité augmentant pour offrir une nouvelle entrée de signal.
- Possibilité de monter dans la boîte de sécurité augmentant des bornes de raccordement aux câbles de type cat. certifiés, autres que les bornes Phoenix.
- Ajout de deux nouveaux prises de mesure :
  - Transmetteur d'oxygène certifié KEMA 93 ATEX 10/95 U.
  - Capteur électrochimique d'oxygène TO2.
- Augmentation de la puissance désamplifiée: 240 W, sans modification du classement en température.

Modification du manuel :
Inchangé.

(A4) DOCUMENTS DESCRIPTIFS :
Ce dossier comprend 20 rubriques (33 pages).

(A5) CONDITIONS SPÉCIALES POUR UNE UTILISATION SURE :
Inchangées, avec en complément :
Le transmetteur d'oxygène certifié KEMA 93 ATEX 10/95 U est un matériau essentiel de sécurité intrinsèque qui n'est pas prévu pour le raccordement de matériels de sécurité intrinsèques. Aucun équipement certifié de sécurité intrinsèque ne devra être utilisé en association avec ce matériel

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Emerson Process Management Manufacturing GmbH & Co. OHG
A-2 EC Type Examination Certificates

(A1) ATTESTATION D'EXAMEN CE DE TYPE LCIE 00 ATEX 6009 X du 2 mai 2000
AVENANT LCIE 00 ATEX 6009 X/03 (suite)

(A6) VERIFICATIONS ET EPREUVES INDIVIDUELLES :
Inchangées.

(A7) EXIGENCES ESSENTIELLES EN CE QUI CONCERNE LA SÉCURITÉ ET LA SANTÉ :
Inchangées.

(A1) EC TYPE EXAMINATION CERTIFICATE
LCIE 00 ATEX 6009 X dated May 2nd, 2000
VARIATION LCIE 00 ATEX 6009 X/03 (continued)

(A6) INDIVIDUAL EXAMINATIONS AND TESTS :
Unchanged.

(A7) ESSENTIAL HEALTH AND SAFETY REQUIREMENTS :
Unchanged.

Fontenay-aux-Roses, le 3 juin 2004

Le Directeur de l'Organisme certificat
Manager of the certification body

(Certification stamp)
A-2    EC Type Examination Certificates

(A1) ATTESTATION D'EXAMEN CE DE TYPE

LCIE 00 ATEX 6009X

du 02 mai 2000

AVENANT 00 ATEX 6009X /04

(A2) DÉSIGNATION DE L'EQUIPEMENT OU DU

SYSTEME DE PROTECTION :

Transmetteur pour analyseur en continu

Type : CAT...

Construit par : EMERSON PROCESS Management

(A3) OBJET DE L'AVENANT, DESCRIPTION DE

L'APPAREIL OU DU SYSTEME DE PROTECTION :

Remplacement du dispositif de respiration par un

bouchon : Ajout du degré de protection IP66

Marquage :

EMERSON PROCESS Management

Address:

Type : CAT...

N° de fabrication

Année de fabrication

Construit par : EMERSON PROCESS Management

(A4) DOCUMENTS DESCRIPTIFS :


Ce dossier comprend 5 rubriques (8 pages).

(A5) CONDITIONS SPÉCIALES POUR UNE UTILISATION

SURE :

Inchangées

(A6) VERIFICATIONS ET ÉPREUVES INDIVIDUELLES :

Inchangées

(A7) EXIGENCES ESSENTIELLES EN CE QUI

CONCERNE LA SECURITÉ ET LA SANTE :

Inchangées

Fontenay-aux-Roses, le 18 février 2005

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