# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION
## IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

| | | |
|---|---|---|
| Certificate No. : | **IECEx LCI 04.0016X** | Issue No.: **1** |
| Status : | **Current** | Page **1** of **5** |
| Date of Issue : | **2005-02-24** | |
| Applicant : | **A.T.X.**<br>E.N.I. rue André Durouchez<br>80084 AMIENS CEDEX 2<br>**France** | |
| Electrical Apparatus : | **Increased safety boxes - CAe** | |
| *Optional accessory :* | | |
| Type of Protection : | **Increased safety 'e', Flameproof 'd' and Intrinsic safety 'i'** | |
| Marking: | **ATX**<br>**Amiens - France**<br>**CAe...**<br>**Ex e II T6 to T3**<br>**or EEx ed IIC T6 to T3**<br>**or Ex ia or ib IIC T6 to T3**<br>**IP66**<br>**LCI 04.0016X** | |

*Approved for issue on behalf of the IECEx Certification Body :*

Marc GILLAUX

*Position :*

Ex certification manager

*Signature :*
*(for printed version)*

*Date :*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by :

**Laboratoire Central des Industries Electriques (LCIE)**
33 Avenue du Général Leclerc
FR-92260 Fontenay-aux-Roses
France

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Certificate No. : **IECEx LCI 04.0016X**

Date of Issue : **2005-02-24** Issue No.: **1**



Manufacturer: **A.T.X.**
E.N.I. rue André Durouchez
80084 AMIENS CEDEX 2
**France**

Manufacturing location(s):

A.T.X.
E.N.I. rue André DUROUCHEZ
80084 AMIENS Cedex 02
France

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

**STANDARDS :**
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

| | |
|---|---|
| **IEC 60079-0 : 2000** Edition: 3.1 | Electrical apparatus for explosive gas atmospheres - Part 0: General requirements |
| **IEC 60079-1 : 2001** Edition: 4 | Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd' |
| **IEC 60079-11 : 1999** Edition: 4 | Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i' |
| **IEC 60079-7 : 2001** Edition: 3 | Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e' |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

**TEST & ASSESSMENT REPORTS:**
*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

| IECEx ATR : | File Reference : |
|---|---|
| **IECEx Test Report** | **LCIE 60022699 516394 – issue 0** |

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# Schedule

**EQUIPMENT :**
*Equipment and systems covered by this certificate are as follows :*

Increased safety boxes CAe

**DESCRIPTION**

Increased safety enclosures declined in 12 models (CAe1 to CAe12), and which are intended to receive the following equipments:
- increased safety terminals,
- intrinsic safety terminals,
- circuit breaker and switch IT40U (IECEx certified LCI 04.0033U).

Components for external connection of electrical circuits (cable glands, adaptators, enlargers, reducers) shall be Ex certified, and shall maintain IP66 degree of protection or at least IP54.

The openings not fitted with cable glands shall be fitted with Ex e certified blanking elements, which maintain IP66 degree of protection, or at least IP54.

These enclosures can be joined together, or to other flameproof enclosures or increased safety enclosures, by guarantying at least to the assemblies an IP54 degree of protection.

| | |
|---|---|
| Maximal operating voltage: | 1000 VAC |
| | 1500 VDC |
| Maximal current: | 1600 A |
| Maximal dissipated power: | 17 W up to 125 W, depending on model and its contents |

**MARKING**

ATX
Amiens - France
CAe...
Serial number
Ex e II T6 to T3 (depending on contents)
or Ex ed IIC T6 to T3 (depending on contents)
or Ex ia or ib IIC T6 to T3 (depending on contents)
IP66
IECEx LCI 04.0016X
DO NOT OPEN WHEN ENERGIZED
Tamb : from -40°C to +55°C
Maximal dissipated power: ... W (depending on model, see following table)

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**CONDITIONS OF CERTIFICATION: YES as shown below:**

1- According to the different contents (nature of equipments, dissipated power, etc.) and operating ambient temperature (up to +55°C), the marking conditions can change.
Temperature class relative to each chosen configuration shall be determined by following the indications in the manufacturer's descriptive documents.

2- The number and characteristics of equipments shall be adapted so as not to exceed permitted maximal dissipated power of the enclosures.The conditions for assembling the enclosures are indicated in the manufacturer's descriptive documents.

3- Creepage distances and clearances of electrical connections shall be respected according to the different voltages.

4- The adjunction of intrinsic safety terminals shall comply with the manufacturer's conditions described in his descriptive documents.

5- The drilling and mounting of accessories carried out by the distributor, or the end user on site, shall be achieved by complying with the rules of increased safety type of protection, and especially:
- respect of creepage distances and clearances according to Table 1 of IEC 60079-7,
- individual examination and test carried out after these operations. All these operations, as well as individual examinations, are under the responsibility of the manufacturer.

**EQUIPMENT(continued):**

**OTHER INFORMATION**

| Enclosure's model | Maximal permitted dissipated power |
|---|---|
| CAe1 | 17 W |
| CAe2 | 22 W |
| CAe3 | 29 W |
| CAe4 | 36 W |
| CAe5 | 50 W |
| CAe6 | 55 W |
| CAe7 | 85 W |
| CAe8 | 125 W |
| CAe9 | 125 W |
| CAe10 | 125 W |
| CAe11 | 125 W |
| CAe12 | 22 W |

**ROUTINE TESTS**

Each single apparatus above defined must be submitted a dielectric strength test according to paragraph 7.2 of IEC 60079-7 standard.

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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1 : ATR n° LCIE 60031271 529472/ 05
Modification of address of the applicant which becomes:

A.T.X
E.N.I. rue André Durouchez
80084 AMIENS CEDEX 2, France

**Annexe:**