

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

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

Certificate No.:	IECEX INE 14.0004	Issue No: 0	Certificate history:
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Issue No. 0 (2014-02-07)

Status: Current Page 1 of 3

Date of Issue: 2014-02-07

Applicant: LE LAS

34-36 rue Roger Salengro

94134 FONTENAY-SOUS-BOIS CEDEX

France

Electrical Apparatus: Telephone Unit type 229A1 or 229A2

Optional accessory:

Type of Protection: e, ib, mb and tb

Marking:

Ex e ib mb IIC T5 Gb Ex ib tb IIIC T100°C Db IP64

Approved for issue on behalf of the IECEx Thierry HOUEIX

Certification Body:

Position: Ex Certification Officer

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:

INERIS
Institut National de l'Environnement Industriel
et des Risques
BP n2
Parc Technologique ALATA
F-60550 Verneuil-En-Halatte

**France** 





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Manufacturer: LE LAS

34-36 rue Roger Salengro

94134 FONTENAY-SOUS-BOIS CEDEX

France

Additional Manufacturing location(s):

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 : 2011 Explosive atmospheres - Part 0: General requirements

Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

IEC 60079-18 : 2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"

Edition:3

IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

Edition:1

IEC 60079-7: 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition:4

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

Test Report:

FR/INE/ExTR14.0004/00

Quality Assessment Report:

FR/INE/QAR13.0001/00



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Schedule

#### **EQUIPMENT:**

Equipment and systems covered by this certificate are as follows:

The Telephone Unit type 229A1 or 229A2, is a telephone intended for the transmission of electric signals to a Private Automatic Branch eXchange

The telephone is composed of:

- a casing protected by increased safety which contains:
  - a printed circuits board protected by intrinsic safety allowing connection from the microphone, the handset and the keyboard with keys,
  - two printed circuits board embedded in a resin and protected by encapsulation. One of these boards comprises, on its higher face, two terminals "e" (located BR1 and BR2) for the connection of the external electric circuits.
- a telephone headset protected by intrinsic safety,
- a second receiver, in option, including a standard ear-phone also protected by intrinsic safety
- a headset, in option, according to maximum coils and capacities allowed by the intrinsic safety circuit.

The casing, made out in polycarbonate stainless steel filled compound, painting in option, is composed of a body closed by a lid maintained by 4 screws. The Telephone Unit type 229A1 is provided with an backplate behind the keyboard sealed by silicone while the keyboard of the type 229A2 is sealed with neoprene directly to the coverplate without the backplate. The enclosures get the degrees of protection IP64 in accordance with IEC 60529.

CONDITIONS OF CERTIFICATION: NO

Annex:

IECEx INE 14.0004-00\_Annex.pdf



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Annexe: IECEx INE 14.0004-00\_Annex.pdf

### PARAMETERS RELATING TO THE SAFETY

The maximum input characteristics of the terminals are:

The Telephone Unit type 229A1 or 229A2 is powered by an a.c. power source:

Terminals reference	Ui	li	Pi
	(Vac)	(mAac)	(W)
BR1, BR2	80	50	1

or,

The Telephone Unit type 229A1 or 229A2 is powered by a d.c. power source:

Terminals reference	Ui	li	Pi
	(Vdc)	(mAdc)	(W)
BR1, BR2	60	80	1,2

#### **MARKING**

Marking has to be readable and indelible; it has to include the following indications:

LE LAS
34-36, rue Roger Salengro,
F-94134 FONTENAY-SOUS-BOIS
229A(\*)
IECEX INE 14.0004
(Serial number)
Ex e ib mb IIC T5 Gb
Ex ib tb IIIC T100°C Db IP64
Tamb= (\*\*)°C to +60°C
WARNING:
"DO NOT OPEN WHEN ENERGIZED"

(\*) One of the following types: 229A1 or 229A2 (\*\*) For the type 229A1: Tamb= -40°C to+60°C For the type 229A2: Tamb= -20°C to +60°C

### **ROUTINE EXAMINATIONS AND TESTS**

Each piece of equipment defined above has to have successfully passed before delivery:

- In accordance with clause 7.1 of the IEC 60079-7 standard and with clause 9.2 from the IEC 60079-18 standard, a test of dielectric strength between the terminals BR1/BR2 and the casing of the phone, the test voltage of 1500 Vac is applied for one minute.
- In accordance with clause 9.1 from the IEC 60079-18 standard, a visual examination of encapsulation.