

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com						
Certificate No.:	IECEx INE 14.0004	Page 1 of 3	Certificate history:			
Status:	Current	Issue No: 0				
Date of Issue:	2014-02-07					
Applicant:	LE LAS 34-36 rue Roger Salengro 94134 FONTENAY-SOUS-BOIS CEDEX France					
Equipment:	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 III C T100°C Db IP64					
Approved for issue Certification Body:	on behalf of the IECEx	Thierry HOUEIX				
Position:		Ex Certification Officer				
Signature: (for printed version)	1					
Date: (for printed version)	1					
 This certificate and This certificate is n The Status and aut 	l schedule may only be reproduced in full. ot transferable and remains the property of the issuing bo thenticity of this certificate may be verified by visiting www	ody. w.iecex.com or use of this QR Code.				
Certificate issue	ed by:					
INERIS Institut Nationa	al de l'Environnement Industriel		INFOIC			

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





Certificate No .: **IECEx INE 14.0004** Page 2 of 3 Date of issue: 2014-02-07 Issue No: 0 LE LAS Manufacturer: 34-36 rue Roger Salengro 94134 FONTENAY-SOUS-BOIS CEDEX France Manufacturing locations: 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 guality 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 equipment 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 Explosive atmospheres - Part 7: Equipment protection by increased safety "e" Edition:4

This Certificate **does not** indicate compliance with 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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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:

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- 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.

SPECIFIC CONDITIONS OF USE: 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.