

IECEx Certificate of Conformity

IEC C	ertification Scher	ne for Explosive A	tmospheres
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ertificate No :		issue No :0	Certificate history:
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atus:	Current		
te of Issue:	2015-09-29	Page 1 of 3	
oplicant:	IMI Sensors, a PCB Pie 3425 Walden Avenue Depew, New York 14043 United States of Ameri	ezotronics Division	
lectrical Apparatus: Dptional accessory:	Piezoelectronic accelero Type : Model EX615A42/N	meter INNNZZ series	
ype of Protection:	Ex ia IIC ; Ex nA IIC		
larking:	Ex ia IIC T6T2 Ga Ui : 28V ; Ii : 0.1A ; Pi : 0.7W ; Ci : 15nF ; Li : 30µH Ex nA IIC T6T2 Gc IECEx LCIE 15.0033 X (The complete marking is available in Annex of this certificate).		
pproved for issue on b Certification Body:	ehalf of the IECEx	Michel Equi	
osition:		Certification Officer	
ignature: or printed version)		Equi	
ate:		2015/09/29	3
This certificate and so This certificate is not The Status and authe	chedule may only be reproduce transferable and remains the p enticity of this certificate may b	ed in full. property of the issuing body. e verified by visiting the Official II	ECEx Website.
rtificate issued by: Laboratoire Ce 33 / FR-	ntral des Industries Electriq Avenue du General Leclerc 92260 Fontenay-aux-Roses	ues (LCIE)	
ocuments relative to L xTRs) can be registere	CIE certification activites (Cert ed under the references "LCI"	tificates, QARs, or "LCIE".	

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Manufacturer:

IMI Sensors, a PCB Piezotronics Division 3425 Walden Ave Depew, New York 14043 United States of America

Additional Manufacturing location (s):

PCB Piezoelectronics 10869 Hwy 903 Halifax, North California 27839 United States of America

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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

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/LCIE/ExTR15.0052/00

Quality Assessment Report:

NL/DEK/QAR14.0004/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The apparatus is a vibration sensor mainly composed of a stainless steel enclosure containing a sensing element and a wire for connection.

It can be installed in zone 0, 1 or 2 for Ex ia version. It can be installed in zone 2 for Ex nA version.

Routine test (For non-sparking apparatus only) :

Dielectric strength test according to §23.2 of IEC 60079-15:2010. 500VAC shall be applied on each apparatus during 60 seconds without breakdown.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature	Temperature
- 55°C ≤ Tamb ≤ +75°C	T6
- 55°C ≤ Tamb ≤ +90°C	T5
- 55°C ≤ Tamb ≤ +125°C	Τ4
- 55°C ≤ Tamb ≤ +190°C	Т3
- 55°C ≤ Tamb ≤ +260°C	T2

Intrinsic safety device :

The intrinsically safe apparatus shall only be connected to intrinsically safe apparatus certified for the intended use. This association shall comply with the requirements of the standard IEC 60079-25.

class

Non sparking device :

The electrical installation to which the apparatus is connected must be protected against transients. The protective device has to be set at a level not exceeding 140% of the peak rated voltage values at the power supply terminals (according to clause 13.c of standard IEC 60079-15).

Annex: LCIE 15.0033 X - Issue 00 - Annex 01 - PCB Piezotronics.pdf



Annex to Certificate IECEx LCIE 15.0033 X issue 00



IMI Sensors, a PCB Piezotronics Division Address : Type : Model EX615A42/MNNNZZ Model : Serial number : Year of construction :

Ex ia IIC T6...T2 Ga Ex nA IIC T6...T2 Gc IECEx LCIE 15.0033 X

Intrinsic safety device : *U*i: 28V; *I*i: 0.1A; *P*i: 0.7W; *C*i: 15nF; *L*i: 30µH

Non-sparking device : U = 28V ; P = 0.7W

Ambient temperature	Temperature class
$-55^{\circ}C \le T_{amb} \le +75^{\circ}C$	T6
$-55^{\circ}C \le T_{amb} \le +90^{\circ}C$	T5
$-55^{\circ}C \le T_{amb} \le +125^{\circ}C$	T4
- 55°C ≤ T _{amb} ≤ +190°C	Т3
$-55^{\circ}C \le T_{amb} \le +260^{\circ}C$	T2

Type details :

Model EX615A42/ MNNNZZ

M : Present only if metric length units NNN : specifies cable length (three numbers) ZZ : specifies termination type (two letters)

> Page 1 of 1 This Annex is valid only in combination with certificate mentioned above and may only be reproduced in its entirety and without any change. CERT-ATEX-FORM 14 Rev. 00