



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 LCIE 16.0023X Issue No: 0 Certificate history:
Issue No. 0 (2017-02-01)

Status: **Current** Page 1 of 3

Date of Issue: **2017-02-01**

Applicant: **Metrix Instrument Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Equipment: **Accelerometer - Type : SA6200A-*****
Optional accessory:

Type of Protection: **Ex nA, Ex ia**

Marking:
Ex nA IIC T3 Gc
or
Ex ia IIC T3 Ga
(refer to attachment for full marking)

Approved for issue on behalf of the IECEx
Certification Body:

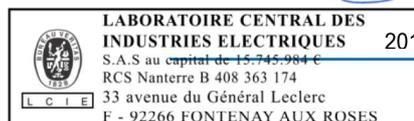
Julien GAUTHIER

Position:

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](http://www.iecex.com).

Certificate issued by:

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





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Date of Issue: 2017-02-01 Page 2 of 3
Manufacturer: **Metrix Instrument Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

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 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/ExTR16.0032/00](#) [FR/LCIE/ExTR16.0090/00](#)

Quality Assessment Report:

[GB/BAS/QAR10.0017/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The equipment is used to detect machine vibration and provide an indication of vibration levels. It consists of an electronic board and sensing element mounted in a stainless steel housing with a threaded connector.

It is divided into two versions: Ex ia or Ex nA.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ex nA version:

a) The electrical parameters of power supply can be connected to the equipment must not exceed the following values : $U \leq 30 \text{ V}$; $I \leq 100 \text{ mA}$; $P \leq 0.75 \text{ W}$.

b) Operating ambient temperature: -54°C to $+121^{\circ}\text{C}$.

c) The user shall ensure degree of protection IP54 at the threaded connector when installation.

d) The mounting of the apparatus into an installation must be carried out in such a way that metallic body of the accelerometer is reliably connected to the system earth.

e) The equipment must be installed per drawing n°9352-AGENCY rev. B dated 2015/04/15 of the instruction manual n°1668055 rev. B dated 2017/01.

Ex ia version:

a) The equipment must be only connected to a certified associated intrinsically safe equipment. This combination must be compatible as regards intrinsic safety rules (see electrical parameter).

b) Operating ambient temperature: -54°C to $+121^{\circ}\text{C}$.

c) The equipment must be installed per drawing n°9352-AGENCY rev. B dated 2015/04/15 of the instruction manual n°1668055 rev. B dated 2017/01.

d) The mounting of the apparatus into an installation must be carried out in such a way that metallic body of the accelerometer is reliably connected to the system earth.

Annex:

[IECEx LCIE 16.0023X issue No.0 Annex 01.pdf](#)



Annex 01 to Certificate IECEX LCIE 16.0023X issue 00



LCIE

ADDITIONAL EQUIPMENT DESCRIPTION

Title:	Drawing No.:	Rev. Level:	Date:
Hazardous installation manual	1668055	B	2017/01

MARKING

METRIX INSTRUMENT Co.

Address: ...

Type: SA6200A-***

Serial number: ...

Year of construction: ...

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Version Ex ia:

Ex ia IIC T3 Ga

U_i: 30 V; I_i: 100 mA; P_i: 0.75 W; C_i: 12 nF; L_i: 0

Version Ex nA:

Ex nA IIC T3 Gc

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WARNING – DO NOT SEPARATE WHEN ENERGIZED

RANGE DETAILS

Model designation:

SA6200A -

*		
*		
*		
	1 =	Connector type: 2 Pin hermetic connector
		Mounting stud:
	0 =	¼-28 UNF
	1 =	M6x1.0
	2 =	¼-20 UNC
	3 =	NONE
	5 =	¼-28 UNF & M6x1.0
		Hazardous area rating:
	2 =	ATEX, Ex ia protection, connection per dwg 9352
	4 =	ATEX, Ex nA protection, connection per dwg 9031
	5 =	ATEX, Ex ia protection, connection per dwg 9352 ATEX, Ex nA protection, connection per dwg 9031 IECEX, Ex ia protection, connection per dwg 9352 IECEX, Ex nA protection, connection per dwg 9031
	6 =	IECEX, Ex ia protection, connection per dwg 9352
	7 =	IECEX, Ex nA protection, connection per dwg 9031

RATINGS

Version Ex nA:

U ≤ 30 V; I ≤ 100 mA; P ≤ 0.75 W.

Version Ex ia:

U_i: 30 V; I_i: 100 mA; P_i: 0.75 W; C_i: 12 nF; L_i: 0



Annex 01 to Certificate IECEX LCIE 16.0023X issue 00



LCIE

ROUTINE TESTS

Version Ex nA:

Each equipment shall be submitted to the dielectric strength test according to the clause 23.2.1 of IEC 60079-15:2010. Test voltage shall be applied between conductive parts and the enclosure.

Version Ex ia:

None