

IECEx Certificate of Conformity

INTER IEC C	NATIONAL ELEC ertification Scher for rules and details of the	TROTECHNICAL C ne for Explosive A e IECEx Scheme visit www.iecex	COMMISSION tmospheres c.com		
Certificate No.:	IECEx LCIE 15.0040X	issue No.:0	Certificate history:		
Status:	Current				
Date of Issue:	2015-08-04	Page 1 of 3			
Applicant:	Metrix Instrument Company 8824 Fallbrook Drive Houston, TX 77064 United States of America				
Electrical Apparatus: Optional accessory:	Vibration sensors type S/ series	A6200 series, SA6200UW serie	s, SA6250 series and SV6300		
Type of Protection:	Ex ia and Ex nA				
Marking:	Ex ia IIC T4 Ga Ex nA IIC T4 Gc IECEx LCIE 15.0040 X (see annex for full inform	ations)			
Approved for issue on be Certification Body:	ehalf of the IECEx	Rémi Hanot			
Position:		Certification Officer			
Signature: (for printed version)		-Rt-			
Date:		2015/08/04			
 This certificate and sc This certificate is not t The Status and auther 	hedule may only be reproduce ransferable and remains the p nticity of this certificate may be	d in full. roperty of the issuing body. verified by visiting the Official IE	CEx Website.		
Certificate issued by: Laboratoire Cei 33 A FR-9 Documents relative to LC ExTRs) can be registere	ntral des Industries Electriqu Avenue du General Leclerc 92260 Fontenay-aux-Roses France CIE certification activites (Certif d under the references "LCI" o	ie s (LCIE) ficates, QARs, r "LCIE".			

	IEC IECEX IECEX Of Conformity				
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Manufacturer:	Metrix Instrument Compa 8824 Fallbrook Drive Houston, TX 77064 United States of America	iny			
Additional Manufacturing (s):	location				
This certificate is issued a found to comply with the covered by this certificate certificate is granted subj as amended.	as verification that a sample(s), represent IEC Standard list below and that the mar , was assessed and found to comply with ect to the conditions as set out in IECEx is	tative of production, was assessed and tested and iufacturer's quality system, relating to the Ex products in the IECEx Quality system requirements. This Scheme Rules, IECEx 02 and Operational Documents			
STANDARDS: The electrical apparatus a documents, was found to	and any acceptable variations to it specifi comply with the following standards:	ed in the schedule of this certificate and the identified			
IEC 60079-0 : 2011	Explosive atmospheres - Part 0: Ger	neral requirements			
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Eq	Part 11: Equipment protection by intrinsic safety "i"			
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Eq	osive atmospheres - Part 15: Equipment protection by type of protection "n"			
This Certificate does n	ot indicate compliance with electrical saf expressly included in the Stand	ety and performance requirements other than those dards listed above.			
TEST & ASSESSMENT I A sample(s) of the equipm	REPORTS: nent listed has successfully met the exam	nination and test requirements as recorded in			
Test Report: FR/LCIE/ExTR15.0063/00)				
Quality Assessment Repo	ort:				
GB/BAS/QAR10.0017/03					

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	Schedule			
QUIPMENT: Equipment and systems co	overed by this certificate are as follows:			
The model SA6200 series, quartz crystal to convert a cylindrical metal case, whic connector or an integral ca Electrical parameters : see Routine test : see annex	SA6200UW series, SA6250 series, SV mechanical vibration measurement into ch houses a pcb substrate board and a p ible (see annex for full informations).	6300 series piezoelectric vibration sensors utilize a an electric signal. The sensor consists of a sealed biezo crystal element. The circuitry is connected to a		
		. al		
	CATION: VES as shown below:			
ONDITIONS OF CERTIF	ICATION: YES as shown below: s must be only connected to a certified a	ssociated intrinsically safe equipment. This		
CONDITIONS OF CERTIFIC Version "ia" : The apparatus combination must be comp Operating ambient tempera	ICATION: YES as shown below: s must be only connected to a certified a atible regarding intrinsic safety rules (se ature : - 54°C to + 121°C.	ssociated intrinsically safe equipment. This electrical parameters).		
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Annex 01 to Certificate IECEx LCIE 15.0040X issue 00



Description of the equipment :

The model SA6200 series, SA6200UW series, SA6250 series, SV6300 series piezoelectric vibration sensors utilize a quartz crystal to convert a mechanical vibration measurement into an electric signal. The sensor consists of a sealed cylindrical metal case, which houses a pcb substrate board and a piezo crystal element. The circuitry is connected to a connector or an integral cable.

Models are electrical identical, but mechanical different

- SA6200-2X1 with top 2-pin connector
- SA6200-5X1 with top 2-pin connector
- SA6250-2X1 with top 2-pln connector
- SA6250-5X1 with top 2-pin connector
- SV6300-2X1 with top 2-pin connector
- SV6300-5X1 with top 2-pin connector
- SA6200UW-2X1 with integral molded cable
- SA6200UW-5X1 with integral molded cable

X : is a number from 0-9 that signifies the type of mounting stud.

The sensors have stainless steel housings and quartz sensing element with capacitance value of 6pF for the piezoelectric sensing element for each of the SA6200-2X1, SA6200-5X1, SA6200UW-2X1 and SA6200UW-5X1 sensors.

The sensors have stainless steel housings and ceramic sensing elements with capacitance value of 2000pF for the piezoelectric sensing element for each of the SA6250-2X1, SA6250-5X1, SV6300-2X1 and SV6300-5X1.

Marking :

Metrix Instrument Company Address : Type : SA62... or SV63... (completed with the model) Serial number : ... Year of construction : ... Ex ia IIC T4 Ga Ex nA IIC T4 Gc IECEx LCIE 15.0040 X -54 $^{\circ}$ \leq Ta \leq +121 $^{\circ}$ Version "ia" only : $U_i : ... V, f_i : ... mA, P_i : ...W, C_i : ...nF, L_i : ...µH (completed according to the model)$

Electrical parameters :

Version "la":					
Туре	<i>U</i> i (V)	/i (mA)	<i>P</i> i (W)	Ci (nF)	<i>L</i> i (µH)
SA6250-2X1, SA6250-5X1, SA6200-2X1, SA6200-5X1	28	93	1	6.5	0
SV6300-2X1, SV6300-5X1	28	93	1	69.2	0
SA6200UW-2X1, SA6200UW-5X1	28	93	1	61	305

Version "nA":

U : 28V, I : 93mA, P : 1W

Routine test :

Version "ia" : None.

Version "nA" : each apparatus must be submitted to a dielectric strength 600V 50Hz during 100ms between the terminals and the housing.

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