

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

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

Certificate No .:	IECEx CML 24.0126X	Page 1 of	3 <u>Certif</u>	icate history:
Status:	Current	Issue No:	0	
Date of Issue:	2025-01-13			
Applicant:	Metrix Instrument Co. 8824 Fallbrook Houston Texas 77064 United States of America			
Equipment:	Vibration Switches SW6000 and SM610	0		
Optional accessory	Γ.			
Type of Protection:	Flameproof Ex "db"			
Marking:	Ex db IIB+H ₂ T5 Gb			
	Ta: -40°C to +85°C (without display)			
	Ta: -10°C to +70°C (with display)			
Approved for issue Certification Body:	on behalf of the IECEx	Stelios Roumbedakis		
Position:		Certification Manager		
Signature: (for printed version)	S.Roumbedakis		
Date: (for printed version)	2025-01-13		
2. This certificate is r	d schedule may only be reproduced in full. ot transferable and remains the property of the issuing thenticity of this certificate may be verified by visiting w	body. ww.iecex.com or use of this QR Code.		
Certificate issue	ed by:			
	E CML Limited rt Business Park		🔅 eurofins	cml

Eurofins E&E CML Limited **Unit 1, Newport Business Park** New Port Road Ellesmere Port, CH65 4LZ **United Kingdom**

METRIX DOC NO: 1168055 REV: C



Certificate No .:	IECEx CML 24.0126X	Page 2 of 3
Date of issue:	2025-01-13	Issue No: 0
Manufacturer:	Metrix Instrument Co. 8824 Fallbrook Houston Texas 77064 United States of America	
Manufacturing locations:	Metrix Instrument Co. 8824 Fallbrook Houston Texas 77064 United States of America	
IEC Standard list be found to comply with	elow and that the manufacturer's quality sys	entative of production, was assessed and tested and found to comply with the tem, relating to the Ex products covered by this certificate, was assessed and his certificate is granted subject to the conditions as set out in IECEx Scheme
STANDARDS : The equipment and to comply with the fo		the schedule of this certificate and the identified documents, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipm	ent - General requirements
IEC 60079-1:2014 Edition:7.0	Explosive atmospheres - Part 1: Equipm	ent protection by flameproof enclosures "d"
		empliance with safety and performance requirements Iy included in the Standards listed above.
TEST & ASSESSM A sample(s) of the e		xamination and test requirements as recorded in:
Test Report:		

GB/CML/ExTR24.0215/00

Quality Assessment Report:

GB/BAS/QAR10.0017/09



Certificate No .:

IECEx CML 24.0126X

Date of issue:

Page 3 of 3

2025-01-13

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Vibration switches SW6000 and SM6100 are used in detecting machine vibration and providing shut down protection when a predetermined vibration level is exceeded.

Refer to Certificate Annex for full Product Description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex for Specific Conditions of Use.

Annex:

IECEx CML 24.0126X Iss. 0 Certificate Annex_1.pdf

Annexe to:IECEx CML 24.0126X Issue 0Apparatus:Vibration Switches SW6000 and SM6100Applicant:Metrix Instrument Co.



Description

Vibration Switches SW6000 and SM6100 are used in detecting machine vibration and providing shut down protection when a predetermined vibration level is exceeded.

SW6000 employs an internal accelerometer.

SM6100 can accept various external vibration transducers.

Ratings:

115 VAC 50/60Hz, 41 mA

230 VAC 50/60 Hz, 20 mA

24 VDC, 200 mA

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The equipment includes flameproof joints that have dimensions that differ from the requirements of IEC 60079-1:2014 Ed. 7 Table 3. As such, the flameproof joints are not intended to be repaired by anyone other than the manufacturer.
- ii. The equipment incorporates a certified operator (IECEx UL 15.0123U) that is considered to be a potential electrostatic charging hazard. As such, the user shall minimize the risk of electrostatic discharge using methods listed in the manufacturer's instructions as per IEC 60079-0:2017 Ed. 7 clause 7.4.2. Additionally, the surface shall only be cleaned with a damp cloth.
- The equipment can incorporate an optional display. Its inclusion alters the ambient temperature range of the equipment as follows:
 Ta = -40°C to +85°C (without display)

 $Ta = -10^{\circ}C$ to $+70^{\circ}C$ (with display)

Components used which are covered by Ex Certificates issued to older editions of Standards

None.



Certificate Annex IECEx Version: 10.0 Approval: Approved



CML

Eurofins E&E CML Limited Newport Business Park, New Port Road Ellesmere Port, CH65 4LZ, UK



The following pages are the prior revisions of this certificate.



INTER			COMMISSION	-
		ne for Explosive A		
	for rules and details of the	e IECEx Scheme visit www.iece	ex.com	
Certificate No.:	IECEx LCI 11.0016X	issue No.:1	Certificate history: Issue No. 1 (2015-4-28)	
Status:	Current		Issue No. 0 (2011-3-11)	
Date of Issue:	2015-04-28	Page 1 of 4		
Applicant:	Metrix Instrument Co. 8824 Fallbrook Drive Houston, Texas 77064 United States of Americ	ca		
Electrical Apparatus: Optional accessory:	Vibration Switches / type	: SW6000 and SM6100		
Type of Protection:	Flameproof "d"			
Marking:	METRIX INSTRUMENT Co Address: Type: Serial Number: Year of manufacturing: Ex d IIB + H2 T4 Gb Tamb: -40°C to +85°C (1) c Tamb: -10°C to +70°C (2) IECEX LCI 11.0016X			
	Note (1) : without display fu Note (2) : with display funct			
Approved for issue on b Certification Body:	ehalf of the IECEx	Rémi HANOT		
Position:		Certification Officer		
Signature: (for printed version)		- At-		
Date:		2015/04/28		
2. This certificate is not	chedule may only be reproduce transferable and remains the p enticity of this certificate may be		IECEx Website.	
33 A FR- Documents relative to L	ntral des Industries Electriqu Avenue du General Leclerc 92260 Fontenay-aux-Roses France CIE certification activites (Certi ed under the references "LCI" o	ficates, QARs,		-

Certificate No.:	IECEx LCI 11.0016X	
ate of Issue:	2015-04-28	Issue No.: 1
		Page 2 of 4
Manufacturer:	Metrix Instrument Co. 8824 Fallbrook Drive Houston, Texas 77064 United States of America	
Additional Manufacturing k s):	ocation	
ound to comply with the IE covered by this certificate, certificate is granted subje-	EC Standard list below and that the man was assessed and found to comply with	tive of production, was assessed and tested and facturer's quality system, relating to the Ex products the IECEx Quality system requirements. This cheme Rules, IECEx 02 and Operational Documents
ound to comply with the IE covered by this certificate, certificate is granted subjects as amended. STANDARDS: The electrical apparatus an	EC Standard list below and that the man was assessed and found to comply with ct to the conditions as set out in IECEx S	facturer's quality system, relating to the Ex products the IECEx Quality system requirements. This
ound to comply with the IE covered by this certificate, certificate is granted subje- as amended. STANDARDS: The electrical apparatus ar documents, was found to co IEC 60079-0 : 2011	EC Standard list below and that the man was assessed and found to comply with ct to the conditions as set out in IECEx S nd any acceptable variations to it specifie	facturer's quality system, relating to the Ex products the IECEx Quality system requirements. This cheme Rules, IECEx 02 and Operational Documents d in the schedule of this certificate and the identified
ound to comply with the IE covered by this certificate, certificate is granted subje- as amended. STANDARDS: The electrical apparatus ar locuments, was found to c	EC Standard list below and that the man was assessed and found to comply with ct to the conditions as set out in IECEx S and any acceptable variations to it specific comply with the following standards: Explosive atmospheres - Part 0: Gen	facturer's quality system, relating to the Ex products the IECEx Quality system requirements. This cheme Rules, IECEx 02 and Operational Documents d in the schedule of this certificate and the identified
bund to comply with the IE covered by this certificate, ertificate is granted subje- is amended. STANDARDS: The electrical apparatus ar locuments, was found to co EC 60079-0 : 2011 Edition: 6.0 EC 60079-1 : 2007-04 Edition: 6	EC Standard list below and that the man was assessed and found to comply with ct to the conditions as set out in IECEX S and any acceptable variations to it specific comply with the following standards: Explosive atmospheres - Part 0: Gen Explosive atmospheres - Part 1: Equi	facturer's quality system, relating to the Ex products the IECEx Quality system requirements. This cheme Rules, IECEx 02 and Operational Documents d in the schedule of this certificate and the identified eral requirements oment protection by flameproof enclosures "d" ty and performance requirements other than those
ound to comply with the IE covered by this certificate, certificate is granted subje- as amended. STANDARDS: The electrical apparatus ar documents, was found to con- IEC 60079-0 : 2011 Edition: 6.0 IEC 60079-1 : 2007-04 Edition: 6 <i>This Certificate does no</i> TEST & ASSESSMENT R	EC Standard list below and that the man was assessed and found to comply with ct to the conditions as set out in IECEx S and any acceptable variations to it specific comply with the following standards: Explosive atmospheres - Part 0: Gen Explosive atmospheres - Part 1: Equi at indicate compliance with electrical safe expressly included in the Standards EPORTS:	facturer's quality system, relating to the Ex products the IECEx Quality system requirements. This cheme Rules, IECEx 02 and Operational Documents d in the schedule of this certificate and the identified eral requirements oment protection by flameproof enclosures "d" ty and performance requirements other than those

Issue No.: 1	IECEx LCI 11.0016X 2015-04-28	Certificate No.: Date of Issue:
Page 3 of 4		
e achine vibration and providing protection to the machine d.SW6000 employs an internal accelerometer while	Schedul overed by this certificate are as follows: ation switches are used in detecting ma redetermined vibration level is exceede s external vibration transducers.	SW6000 and SM6100 vibra
out display. liquid crystal display	ICATION: YES as shown below: nge is -40°C to +85°C for model with nge is -10°C to +70°C for model with	
out display. liquid crystal display		

Certificate No.:	IECEx LCI 11.0016X			
Date of Issue:	2015-04-28	Issue No.: 1 Page 4 of 4		
	FE CHANGES (for issues 1 and above):			
	according to IEC 60079-0:2011 Ed 6.0			
			-	



The following pages are the prior revisions of this certificate.



	rtification Scho	CTROTECHNICAL (eme for Explosive A f the IECEx Scheme visit www.iec	Atmospheres
Certificate No .:	IECEx LCI 11.0016X	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2011-03-11	Page 1 of 3	
Applicant:	Metrix Instrument Co 8824 Fallbrook Drive Houston, Texas 77064 United States of Amo		
Electrical Apparatus: Optional accessory:	Vibration Switches / ty	ype : SW6000 and SM6100	
Type of Protection:	Flameproof "d"		
Marking:	METRIX INSTRUMENT Address: Type: Serial Number: Year of manufacturing Ex d IIB + H2 T4 Tamb: -20°C to +85°C Tamb: -10°C to +70°C IECEX LCI 11.0016X Note (1) : without disp Note (2) : with display	g: (1) or (2) Nay function	
Approved for issue on be Certification Body:	half of the IECEx	Marc GILLAUX	
Position:		Certification Manager	
Signature: (for printed version)		- fillant	
Date:		1 1 MARS 2011	
 This certificate and sch This certificate is not tra The Status and authen 	ansferable and remains th	duced in full. he property of the issuing body. y be verified by visiting the Officia	I IECEx Website.
Certificate issued by:			100 m
33 Av	tral des Industries Elect venue du General Lecler 2260 Fontenay-aux-Rose France	rc	

		c Certificate onformity
Certificate No .:	IECEx LCI 11.0016X	
Date of Issue:	2011-03-11	Issue No.: 0
		Page 2 of 3
Manufacturer:	Metrix Instrument Co. 8824 Fallbrook Drive Houston, Texas 77064 United States of America	a
Manufacturing location(s):		
found to comply with the II covered by this certificate,	EC Standard list below and that the ma was assessed and found to comply w	entative of production, was assessed and tested and anufacturer's quality system, relating to the Ex products vith the IECEx Quality system requirements. This x Scheme Rules, IECEx 02 and Operational
	nd any acceptable variations to it spec comply with the following standards:	cified in the schedule of this certificate and the identified
IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive g	as atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Ec	quipment protection by flameproof enclosures "d"
This Certificate does no	t indicate compliance with electrical sa expressly included in the Sta	afety and performance requirements other than those ndards listed above.
TEST & ASSESSMENT R A sample(s) of the equipm		amination and test requirements as recorded in
Test Report:		
FR/LCI/ExTR11.0016/00		
Quality Assessment Repo	rt:	
GB/BAS/QAR10.0017/00		

.

ertificate No .:	IECEx LCI 11.0016X	
ate of Issue:	2011-03-11	Issue No.: 0
		Page 3 of 3
	Schedule	
JIPMENT:	overed by this certificate are as follows:	
chine by shutting it dov	ration switches are used in detecting mac vn when predetermined vibration level is e 100 can accept various external vibration	nine vibration and providing protection to the exceeded.SW6000 employs an internal transducers.
iant temperature ra	FICATION: YES as shown below: nge is -20°C to +85°C for model withon nge is -10°C to +70°C for model with li	ut display. quid crystal display