



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

Certificate No.: IECEx CQM 19.0005X

Issue No: 0

Certificate history:

Issue No. 0 (2019-07-02)

Status: **Current**

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Date of Issue: **2019-07-02**

Applicant: **Shenyang VibroTech Instruments INC**

Room 206, No. 7 Xinlong Street, HunNan New District, Shenyang City, Postal

code: 110179

**China**

Equipment: **Electronic Vibration Switch EVS1105 series**

*Optional accessory:*

Type of Protection: **Ex 'd'**

Marking:

Ex db IIC T6 Gb IP66

Tamb: -40°C ~ +70°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

Ji Xiaodong

*Position:*

General Manager

*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:

**China Quality Mark Certification Group Co., Ltd.**  
No. 33 Zengguang Road, Haidian District,  
Beijing City, Postal code: 100048  
China





# IECEX Certificate of Conformity

Certificate No: IECEx CQM 19.0005X Issue No: 0  
Date of Issue: 2019-07-02 Page 2 of 3  
Manufacturer: **Shenyang VibroTech Instruments INC**  
Room 206, No.7Xinlong Street, HunNan New District, Shenyang City, Postal code:110179  
**China**

Additional Manufacturing location(s):  
**Shenyang VibroTech Instruments INC**  
Gate 17, No. 23-2, Yunfeng North Street, Tiexi District, Shenyang, Liaoning Province,  
Postal code: 110021  
China

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 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 : 2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0  
**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

*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:

[CN/CQM/ExTR19.0006/00](#)

Quality Assessment Report:

[CN/CQM/QAR19.0001/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

### General product information:

Electronic vibration switch is used to detect the vibration value of the machine. Each whole has one flameproof compartment. The explosion-proof joint surface of the upper cover and the shell is a threaded joint surface. The explosion-proof joint surface of the upper cover and glass is cemented joint and the transmitter shell is a threaded joint surface. There are same of two electrical interfaces hole on the shell reserved for IECEx certified entry with flameproof threaded joint of 3/4"NPT or M20×1.5. The material of shell is aluminum alloy. There is an internal earthing bolt and an external bolt on the enclosure.

The detailed model definition is specified in attachment.

### Rating:

Input voltage: 18-30VDC, input current 167-278mA ;

Input voltage 110-275VAC, input current 100-200mA

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Repair of the threaded joints must be made in compliance with the structural specifications provided by the manufacturer.
2. When assembly, operation and maintenance, the operator should follow the requirements of IEC 60079-14:2007. ( 19 ) .
- 3.The entries conforms the IEC authentication and have IECEx certificate.
4. Rated ambient temperature range is -40°C to +70°C.
- 5.WARNING – DO NOT OPEN WHEN ENERGIZED.

WARNING - CABLE AND ENTRY REFER TO THE INSTRUCTION MANUAL.

### Annex:

[Attachment to IECEx CQM 19.0005X issue 0.pdf](#)



# Attachment to Certificate

IECEX CQM 19.0005X issue No.:0



**Applicant:** Shenyang VibroTech Instruments INC

Room 206, No.7 Xinlong Street, HunNan New District, Shenyang, Liaoning Province, Postal Code:110179 China

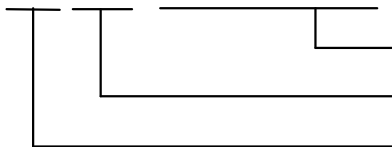
**Electrical equipment:**

Electronic Vibration Switch EVS1105 series

**Description of equipment:**

1. Model definition

EVS 1105 A B CDE F



A- F definition specified in Table 1

Internal Serial Number

Abbreviation of the mechanical vibration switch

Table 1 Definition of A-F

A		Mounting style
S1		1/2" NPT , mounting stud screw threads
		3/4" NPT, electrical interface
S2		M20×1.5, mounting stud screw threads
		M20×1.5, electrical interface
B		Measurement range
Vibration velocity peak value		
	100	12.7mm/s, pk
	101	25.4mm/s, pk
	102	50mm/s, pk
	105	32mm/s, pk
	106	20mm/s, pk
Effective vale of vibration velocity		
	130	12.7mm/s, rms
	131	25.4mm/s, rms
	132	50mm/s, rms
	135	32mm/s, rms
	136	20mm/s, rms
Vibration displacement		
	151	50μm, pk
	152	125μm, pk
	153	150μm, pk
	154	200μm, pk



# Attachment to Certificate

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Vibration acceleration peak		
121	2g,	pk
122	5g,	pk
123	8g,	pk
Effective value of vibration acceleration		
141	2g,	rms
142	5g,	rms
143	8g,	rms
<b>C</b> Power supply		
1	110-275VAC, single phase, 50/60HZ	
2	18-30VDC	
<b>D</b> Explosion proof grade		
2	IECEX Ex db IIC T6 Gb	
<b>E</b> Dynamic buffering signal		
0	No (blank represents default)	
1	Dynamic buffering signal	

## 2. Thread hole reserved for IECEx Certified Entry

