



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 CQM 19.0003X

Issue No: 0

Certificate history:

Issue No. 0 (2019-04-17)

Status: **Current**

Page 1 of 3

Date of Issue: **2019-04-17**

Applicant: **Shenyang VibroTech Instruments INC**
Room 206, No.7 Xinlong Street, HunNan New District, Shenyang, Liaoning Province,
Postal Code:110179
China

Equipment: **Vibration transmitter VT9285 Series**

Optional accessory:

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

Marking: **Ex db IIC T6 Gb IP66**

Tamb: -55°C ~ +75°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





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Certificate No: IECEX CQM 19.0003X Issue No: 0
Date of Issue: 2019-04-17 Page 2 of 3
Manufacturer: **Shenyang VibroTech Instruments INC**
Room 206, No.7 Xinlong Street, HunNan New District, Shenyang, Liaoning Province, 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/ExTR19.0002/00

Quality Assessment Report:

CN/CQM/QAR19.0001/00



IECEX Certificate of Conformity

Certificate No: IECEx CQM 19.0003X

Issue No: 0

Date of Issue: 2019-04-17

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information

VT9285 Series equipments are Vibration transmitters used to detect the vibration value of machines. The detailed type definition is specified in attachment.

The equipment consists of two parts: the upper part and the lower part. The material of the lower part shell is 304SS or 316L stainless steel and the material of the upper part shell is aluminum alloy or 316L stainless steel.

The explosion-proof joint between the upper part cover and the upper part shell is a threaded joint. The explosion-proof joint between the upper part shell and the lower part shell is a threaded joint. There is a threaded hole on the upper part shell reserved for IECEx certified entry with flameproof threaded joint of 3/4"NPT or 1/2"NPT or 1"NPT or M20×1.5 which is specified in attachment.

There is an internal earthing bolt and an external bolt on the enclosure.

Rating

Rated voltage:12-30VDC Rated current: 30-58mA

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Rated ambient temperature is from -55°C to +75°C.
2. Repair of the threaded joints must be made in compliance with the structural specifications provided by the manufacturer.
3. When assembly, operation and maintenance, the operator should follow the requirements of IEC 60079-14:2007.
3. The entries intended to be installed in the reserved threaded hole should have IECEx certificate.
4. WARNING – DO NOT OPEN WHEN ENERGIZED.
5. WARNING – CABLE AND ENTRY REFER TO THE INSTRUCTION-MANUAL.

Annex:

[Attachment to IECEx CQM 19.0003X issue 0.pdf](#)



Attachment to Certificate

IECEX CQM 19.0003X 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:

Vibration transmitter VT9285 series

Description of equipment:

1. Model definition

VT 9285 X AAA BCD EF GH

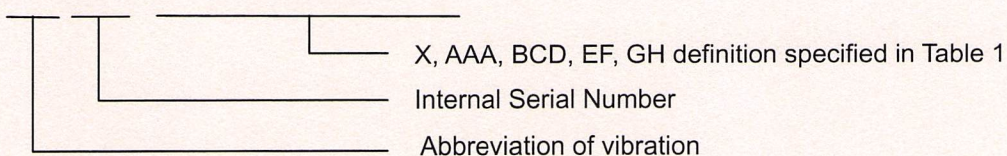


Table 1 Definition of X, AAA, BCD, EF, GH

X		Transmitter function type
	B	2-wire
	C	3-wire
	H	Hart enabled
AAA		Measuring range
vibration transmitter		
Peak value		
	121	25.4mm/s (1.0ips), pk
	122	12.7mm/s (0.5ips), pk
	123	50mm/s (2.0ips), pk
	124	125mm/s (5.0ips), pk
	125	10mm/s (0.4ips), pk
	126	20mm/s (0.8ips), pk
	127	16mm/s (0.65ips), pk
	128	75mm/s (3.0ips), pk
Effective value (RMS)		
	151	25.4mm/s (1.0ips), rms
	152	12.7mm/s (0.5ips), rms
	153	50mm/s (2.0ips), rms
	154	125mm/s (5.0ips), rms
	155	10mm/s (0.4ips), rms
	156	20mm/s (0.8ips), rms
	157	16mm/s (0.65ips), rms
	158	75mm/s (3.0ips), rms
Vibration acceleration transmitter		
Peak value		
	801	1g, pk
	802	2g, pk
	803	3g, pk



Attachment to Certificate

IECEX CQM 19.0003X issue No.:0



	804	5g, pk
Effective value (RMS)		
	831	1g, rms
	832	2g, rms
	833	3g, rms
	834	5g, rms
Vibration displacement transmitter		
	101	0-100um, pk-pk
	102	0-125um, pk-pk
	103	0-150um, pk-pk
	104	0-200um, pk-pk
	105	0-250um, pk-pk
	106	0-500um, pk-pk
	107	0-1000um, pk-pk
B	Mounting stud thread	
	0	Integral 1/4"NPT
	1	Integral 1/2"NPT
	2	3/8"-24UNF×1/2"
	3	M8×1-12
	4	M10×1.25-12
	5	1/4"-20UNC
	6	1/4"-28UNF
	7	M8×1.25-12
	8	M10×1-12
	9	M10×1.5-12
	10	M12×1.75-12
	11	M20×1.5-12
	x	Custom, consult factory
C	Explosion-proof Grade	
	4	IECEX, Ex db IIC T6 Gb
D	Wiring	
	0	4-20mA flying leads
	1	4-20mA dynamic signal: flying leads
	2	4-20mA terminal blocks
	3	4-20mA dynamic signal: terminal blocks
E	High-pass filter	
	0	default (2Hz) standard
	1	5Hz
	2	10Hz
	3	20Hz
	4	50Hz
	5	100Hz
	6	200Hz
F	Low-pass filter	
	0	default (1500Hz) standard
	1	500Hz



Attachment to Certificate

IECEX CQM 19.0003X issue No.:0



	2	1000Hz
	3	2000Hz
G		Case material
	0	Lower shell : 304SS Upper shell : alloy aluminum (blank represents default)
	1	Lower shell : 316L Upper shell : alloy aluminum
	2	Integral 316L
H		Electrical interface
	1	1/2"NPT
	2	3/4"NPT
	3	M20×1.5
	4	1"NPT

2. Thread hole reserved for IECEx Certified Entry

