



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 19.0004X

Issue No: 0

Certificate history:

Issue No. 0 (2019-06-03)

Status: **Current**

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Date of Issue: **2019-06-03**

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

Equipment: **Indicating vibration transmitter VT9299 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





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Manufacturer: **Shenyang VibroTech Instruments INC**
Room 206, No.7 Xinlong 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/ExTR19.0005/00](#)

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:

Indicating vibration transmitter is used to detect the vibration value of machine and provides on-site display. The equipment has one flameproof compartment and consists of two shell parts – the head shell and the transmitter shell. The explosion-proof joint between the show cover and the head shell is a threaded joint. The explosion-proof joint between the cover and the head shell is a threaded joint. The explosion-proof joint between the head shell and the transmitter shell is a threaded joint. The explosion-proof joint between the show cover and glass is cemented joint. There is a threaded hole on the head shell reserved for IECEx certified entry with flameproof threaded joint of M20×1.5.

The material of the transmitter shell is 304SS or 316L stainless steel and the material of the head shell is aluminum alloy.

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

Rating:

Rated voltage: 12-30VDC, Ratec power:0.7W

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Rated ambient temperature range is -40C to +70°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.
- 4.The entries conforms the IEC authentication and have IECEx certificate.
5. WARNING – "DO NOT OPEN WHEN ENERGIZED."

WARNING – "CABLE AND ENTRY REFER TO THE INSTRUCTION MANUAL."

Annex:

[Attachment to IECEx CQM 19.0004X issue 0.pdf](#)



Attachment to Certificate

IECEX CQM 19.0004X 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:
 Indicating vibration transmitter VT9299 series

Description of equipment:

1. Model definition

VT 9299 X AAA BCD EF G

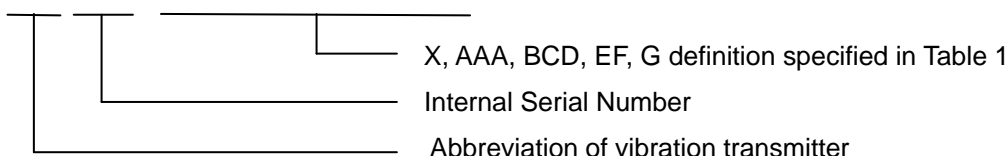


Table 1 Definition of X, AAA, BCD, EF, G

X		Transmitter function type
	B	2-wire
	C	3-wire
	H	2-wire, Hart enabled
AAA		Measuring range
vibration transmitter		
Peak value of vibration speed		
	921	25.4mm/s (1.0ips), pk
	922	20mm/s (0.8ips), pk
	923	50mm/s (2.0ips), pk
	924	100mm/s (4.0ips), pk
	925	15mm/s (0.6ips), pk
	926	10mm/s (0.4ips), pk
	927	75mm/s (3.0ips), pk
	928	125mm/s (5.0ips), pk
Effective value (RMS)		
	951	25.4mm/s (1.0ips), rms
	952	20mm/s (0.8ips), rms
	953	50mm/s (2.0ips), rms
	954	100mm/s (4.0ips), rms
	955	15mm/s (0.6ips), rms
	956	10mm/s (0.4ips), rms
	957	75mm/s (3.0ips), rms
	958	125mm/s (5.0ips), rms
Vibration acceleration transmitter		
Peak value		



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	901	1g, pk
	902	2g, pk
	903	3g, pk
Effective value (RMS)		
	931	1g, rms
	932	2g, rms
	933	5g, rms
Peak value of the vibration displacement		
	911	100um
	912	150um
	913	200um
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		
	5	IECEX, Ex db IIC T6 Gb
D Display/ electrical interface		
	1	Double chamber, M20×1.5
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
	2	1000Hz
	3	2000Hz
G Case material		



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	0	Head shell: aluminum alloy Transmitter shell: 304SS (Blank represents default)
	1	Head shell: aluminum alloy Transmitter shell: 316L

2. Thread hole reserved for IECEx Certified Entry

