



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx SGS 24.0005X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2024-07-15		
Applicant:	STI Vibration Monitoring Inc. 1010 East Main Street League City Texas 77573 United States of America		
Equipment:	CMCP700/IS Series Accelerometer		
Optional accessory:			
Type of Protection:	Intrinsic Safety		
Marking:	See Annex for Marking Details		

Approved for issue on behalf of the IECEx
Certification Body:

P Oates

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

15/7/2024

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

SGS United Kingdom Ltd
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom





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Manufacturer: **STI Vibration Monitoring Inc.**
1010 East Main Street
League City
Texas 77573
United States of America

Manufacturing
locations: **STI Vibration Monitoring Inc.**
1010 East Main Street
League City
Texas 77573
United States of America

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 equipment 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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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:

[GB/SGS/ExTR24.0015/00](#)

Quality Assessment Report:

[US/ETL/QAR20.0001/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CMCP700/IS Accelerometers are designed to measure acceleration or vibration by converting the signal generated by the compression of a Piezo electric crystal by a given seismic mass and outputting a broadband ac signal to the monitoring equipment.

The accelerometer comprises of a piezo electric crystal connected to a signal conditioning board, all contained within a fully welded steel enclosure.

CMCP7XXT/IS versions include a temperature transmitter.

CMCP760T/IS is a tri-axial sensor comprising three individual circuits with common 0V line, sharing a single set of parameters.

Electrical connections are made via a connector or integral cable.

The equipment has the following terminal parameters:

Uni-axial accelerometer:

Connector Only	≤ 10m of Cable	≤ 150m of Cable	≤ 300m of Cable
$U_i = 28\text{ V}$	$U_i = 28\text{ V}$	$U_i = 28\text{ V}$	$U_i = 28\text{ V}$
$I_i = 93\text{ mA}$	$I_i = 93\text{ mA}$	$I_i = 93\text{ mA}$	$I_i = 93\text{ mA}$
$P_i = 0.65\text{ W}$	$P_i = 0.65\text{ W}$	$P_i = 0.65\text{ W}$	$P_i = 0.65\text{ W}$
$C_i = 1.2\text{ nF}$	$C_i = 5.2\text{ nF}$	$C_i = 61.2\text{ nF}$	$C_i = 64.2\text{ nF}$
$L_i = 0$	$L_i = 10\text{ }\mu\text{H}$	$L_i = 150\text{ }\mu\text{H}$	$L_i = 150\text{ }\mu\text{H}$

Tri-axial accelerometer:

Connector Only	≤ 10m of Cable	≤ 150m of Cable	≤ 300m of Cable
$U_i = 28\text{ V}$	$U_i = 28\text{ V}$	$U_i = 28\text{ V}$	$U_i = 28\text{ V}$
$I_i = 93\text{ mA}$	$I_i = 93\text{ mA}$	$I_i = 93\text{ mA}$	$I_i = 93\text{ mA}$
$P_i = 0.65\text{ W}$	$P_i = 0.65\text{ W}$	$P_i = 0.65\text{ W}$	$P_i = 0.65\text{ W}$
$C_i = 3.6\text{ nF}$	$C_i = 7.6\text{ nF}$	$C_i = 63.6\text{ nF}$	$C_i = 66.6\text{ nF}$
$L_i = 0$	$L_i = 10\text{ }\mu\text{H}$	$L_i = 150\text{ }\mu\text{H}$	$L_i = 150\text{ }\mu\text{H}$

For equipment markings please see Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Where the sensor is supplied with an integral cable, this must be terminated in an enclosure providing at least degree of protection IP20.
- The equipment is marked with reduced certification marking. Refer to Certificate Schedule for full certification markings & applicable temperature classification and associated ambient temperature range.

Annex:

[IECEx SGS 24.0005X Annex_1.pdf](#)

The equipment carries the following markings:

Uni-axial accelerometers with integral cable (with or without temperature sensor)

Ex ia IIC T ₆ Ga	-55°C ≤ T _a ≤ +57°C
Ex ia IIC T ₄ Ga	-55°C ≤ T _a ≤ +103°C
Ex ia IIIC T ₂₀₀ 110°C Da	-55°C ≤ T _a ≤ +57°C
Ex ia IIIC T ₂₀₀ 135°C Da	-55°C ≤ T _a ≤ +70°C
Ex ia IIIC T ₂₀₀ 145°C Da	-55°C ≤ T _a ≤ +92°C
Ex ia I Ma	-55°C ≤ T _a ≤ +103°C

Uni-axial accelerometers with connectors (with or without temperature sensor)

Ex ia IIC T ₆ Ga	-55°C ≤ T _a ≤ +57°C
Ex ia IIC T ₄ Ga	-55°C ≤ T _a ≤ +103°C
Ex ia IIIC T ₂₀₀ 135°C Da	-55°C ≤ T _a ≤ +70°C
Ex ia IIIB T ₂₀₀ 110°C Da	-55°C ≤ T _a ≤ +57°C
Ex ia IIIB T ₂₀₀ 145°C Da	-55°C ≤ T _a ≤ +92°C
Ex ia I Ma	-55°C ≤ T _a ≤ +103°C

Tri-axial Accelerometers with integral cable and no temperature sensor:

Ex ia IIC T ₆ Ga	-55°C ≤ T _a ≤ +69°C
Ex ia IIC T ₄ Ga	-55°C ≤ T _a ≤ +104°C
Ex ia IIIC T ₂₀₀ 102°C Da	-55°C ≤ T _a ≤ +69°C
Ex ia IIIC T ₂₀₀ 131°C Da	-55°C ≤ T _a ≤ +98°C
Ex ia I Ma	-55°C ≤ T _a ≤ +104°C

Triaxial accelerometers with connectors and no temperature sensor:

Ex ia IIC T ₆ Ga	-55°C ≤ T _a ≤ +69°C
Ex ia IIC T ₄ Ga	-55°C ≤ T _a ≤ +104°C
Ex ia IIIC T ₂₀₀ 135°C Da	-55°C ≤ T _a ≤ +70°C
Ex ia IIIB T ₂₀₀ 102°C Da	-55°C ≤ T _a ≤ +69°C
Ex ia IIIB T ₂₀₀ 131°C Da	-55°C ≤ T _a ≤ +98°C
Ex ia I Ma	-55°C ≤ T _a ≤ +104°C