



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 CSA 12.0014X

Issue No: 6

Certificate history:

[Issue No. 6 \(2018-01-05\)](#)

[Issue No. 5 \(2017-04-25\)](#)

[Issue No. 4 \(2016-06-12\)](#)

[Issue No. 3 \(2016-02-25\)](#)

[Issue No. 2 \(2015-12-07\)](#)

[Issue No. 1 \(2015-06-08\)](#)

[Issue No. 0 \(2012-08-24\)](#)

Status: **Current**

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Date of Issue: **2018-01-05**

Applicant: **Computational Systems, Inc.**
835 Innovation Drive
Knoxville, TN 37932
United States of America

Equipment: **Vibration Monitor CSI 9420**

Optional accessory:

Type of Protection: **Ex ia; Ex ic**

Marking:

Ex ia IIB T4 Ga

Ex ic IIC T4 Gc

Ta: -40°C to +85°C

Ta: -20 to 80C for version w/LCD

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

Dorin Stochitoiu

Position:

Technical Advisor

*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](#).

Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Manufacturer: **Computational Systems, Inc.**
835 Innovation Drive
Knoxville, TN 37932
United States of America

Additional Manufacturing location(s):

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 electrical 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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

CA/CSA/ExTR12.0013/00
CA/CSA/ExTR12.0013/03
CA/CSA/ExTR12.0013/06

CA/CSA/ExTR12.0013/01
CA/CSA/ExTR12.0013/04

CA/CSA/ExTR12.0013/02
CA/CSA/ExTR12.0013/05

Quality Assessment Report:

GB/SIR/QAR17.0002/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The CSI 9420 Vibration Monitor is used to monitor vibration of equipment in Zone 0 and Zone 2 explosive atmospheres. It is powered by a user-replaceable primary battery pack Model 701PBKKF or A0701PBU or Power Module Model A9000Px and installed per Control Drawing No. D25418. It communicates the data via an RF link. Field mounted accelerometers (certified) may be connected to the CSI 9420 directly or via A9000Px module per control drawing D25790. A certified Hart Communicator may also be connected for configuration etc. The Monitor consists of various circuit board assemblies mounted in a rugged aluminum alloy or stainless-steel enclosure. May be used with Emerson Hart Communicator Model 375 or 475 or Trex Device Communicator. Antenna options used in the device construction are 00735-2035-0051 and 00735-2035-0054 only (drawing 00735-2035).

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The antenna may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.
2. The apparatus may be equipped with an aluminum alloy or stainless-steel enclosure. The aluminum alloy enclosure is given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in a zone 0 environment.
3. For use with Emerson Battery Pack Model 701PBKKF or A0701PBU or Power Module Model A9000Px.
4. Intrinsically Safe when installed per drawing D25418.
5. The battery pack may present a potential electrostatic ignition hazard. Use Caution when replacing battery pack.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1:

Addition of Ex ic IIC T4 Gc marking to Vibration monitor CSI 9420.

Issue 2:

Update to cover minor changes not affecting protection method.

Issue 3:

Addition of alternate power module MHM-89004 (A0701PBU) certified under IECEx 15.0045X.

Issue 4:

Update to cover minor drawings revision.

Issue 5:

Changes for CSI 9420 vibration monitor for RoHS compliance, and addition of alternate plug in "Trex Device Communicator" communication device.

Issue 6:

Addition of alternate power module model A9000Px and drawings update for minor changes.