



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 ETL 15.0047X Issue No: 0 Certificate history:
Issue No. 0 (2015-11-02)

Status: **Current** Page 1 of 3

Date of Issue: **2015-11-02**

Applicant: **SETPOINT Vibration, a division of Compressor Controls Corporation**
2243 Park Place, Suite A
Minden, NV 89423
United States of America

Electrical Apparatus: **Setpoint – Machinery Protection System**
Optional accessory:

Type of Protection: **Non-arcing nA, Enclosed break nC**

Marking: Ex nA nC IIC 160°C (T3) Gc
-20°C ≤ Tamb ≤ 65°C
IECEX ETL 15.0047X

Approved for issue on behalf of the IECEx
Certification Body:

Don Card

Position:

Certification Officer

Signature:
(for printed version)

Date:

2015-11-02

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:

Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America





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Manufacturer: **SETPOINT Vibration, a division of Compressor Controls Corporation**
2243 Park Place, Suite A
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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 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

*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:

[US/ETL/ExTR15.0053/00](#)

Quality Assessment Report:

[US/ETL/QAR15.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Setpoint – Machinery Protection System consists of a 4-slot, 8-slot, or 16-slot backplane, a rack connect module (RCM), one or two system access modules (SAM), and a combination of universal monitory modules (UMM), temperature monitoring modules (TMM) and power connection modules (PCM).

RCM and SAM are required in all configurations; however, UMM and TMM are optional. A combination of UMM and TMM can be from one of each module or up to 14 combined for 16-slot model.

RCM consists of: primary power input, secondary power input, discrete contact control inputs, rack fault relay, reset button, LED indicators, buffered transducer outputs. PCM is a modified RCM containing only the power circuits.

SAM provides access for: configuring all modules, connection to the control network, local display connection, system event and alarm lists, and connection to condition monitoring host computer.

UMM is a 4-channel machine monitoring modules that supports various sensors including but not limited to proximity, velocity, acceleration, seismic, pressure, LVDT or process variable. All channels are independent and may be configured to use any of the sensors.

TMM is a 6-channel machine monitoring module that supports thermocouple and RTD inputs or external process variable.

Remote display contains of a LCD display, display board and just a door of the enclosure .

Setpoint Modules can be removed while the system is powered (hot swap) only in non-hazardous environment.

Product is nC due to presence of sealed relays; all other components evaluated are non-arcing (nA).

See Annex I for Manufacturer's Documentation.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. To be installed inside an IECEx certified IP54 enclosure that has a suitable service temperature range. Mounting of the equipment within a suitable enclosure will cause the internal ambient enclosure temperature to be higher than the maximum external enclosure ambient temperature. The equipment shall not form part of the external enclosure (panel mounted, for example). All cable entries in to the enclosure shall be fitted with IECEx certified cable glands that have a minimum ingress protection of IP54. The cable glands shall have an operating temperature range equal to or greater than the ambient operating temperature.
2. Maximum ambient temperature where the unit is installed shall not exceed 65°C.
3. Transient protection shall be provided on the supply to limit transients to max: 50.4 Vpk (140% of the peak voltage).
4. USB connectors are not for use in hazardous area and will be internal to installation in an IECEx certified IP54 enclosure.
5. System chassis ground must follow section 3.4.1 of the Hazardous Area Installation Manual; Document: 1160865; Rev: C.
6. Module hot-swapping is not allowed in hazardous locations.
7. Any Ethernet connectors used shall be checked to ensure that the mechanical retaining clip is undamaged and provides a mechanically secured and retained connection.

Annex:

[Annex for COC IEC Ex Certificate No IECEx ETL 15.0047X.pdf](#)