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 PRE 18.0069X

Issue No: 0

Certificate history:
Issue No. 0 (2018-12-12)

Status: **Current**

Date of Issue: **2018-12-12**

Applicant: **Trisense AS**
Johan Berentsensvei 41
5160 Laksevåg
Norway

Equipment: **Turn of valve and pressure valve POP detectors with BLE module**

Optional accessory: *N / A*

Type of Protection: **Intrinsically safe**

Marking:

Ex ia IIB T4 Ga

-40°C to +80°C Maximum external source of heat (e.g. the pipeline and valve where the equipment is mounted) shall not exceed +80°C.

Approved for issue on behalf of the IECEx Certification Body: Asle Kaastad

Position: Certification 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.

Certificate issued by:

DNV GL Nemko Presafe AS
Veritasveien 3
1363 Høvik
Norway

Presafe
A DNV GL & NEMKO COMPANY

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Manufacturer: **Trisense AS**
Johan Berentsensvei 41
5160 Laksevåg
Norway

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 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:

NO/PRE/ExTR18.0082/00

Quality Assessment Report:

NO/PRE/QAR17.0004/01

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Fusion detector will detect activation (popping) of the Pressure Safety Valve (PSV) covering range of different types of PSVs. The various POP characteristics are programmable through the Fusion detector wireless user interface. One model is for detecting turn of valve.

The Fusion detectors are battery operated by a single cell or two cells parallel coupled. The cells are non-chargeable. The electronics and cell(s) are mounted inside a non-metallic enclosure. The enclosure is then filled with casting compound. The Fusion unit cannot be opened and has no physical wiring terminals. Communication takes place only through the Bluetooth communication protocol integrated in the electronics of the unit. The cells cannot be charged or replaced. It is only the firmware and number of battery cells that are changed on all the different models.

Type designation: Fusion, Fusion 100 / Fusion 200 / Fusion 220 / Fusion 300 / Fusion 400 / Fusion 500 / Fusion 600 / Fusion sensor.

SPECIFIC CONDITIONS OF USE: YES as shown below:

WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD
(The Fusion sensor shall be installed on the housing by using a Metal Strapping Band to avoid isolating the metal bracket. Described in the instructions.)