



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 EPS 23.0019X**

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[Certificate history:](#)

Status: **Current**

Issue No: 0

Date of Issue: **2023-07-20**

Applicant: **Pyromation LLC**
5211 Industrial Road
Fort Wayne, IN 46825
United States of America

Equipment: **Temperature Transmitter, type T142**

Optional accessory:

Type of Protection: **Intrinsic safety "i"**

Marking: **Ex ia IIC T6...T4 Ga**
Ex ia IIIC T85°C...T110°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)

Ulrich Feike

Head of Certification

2023-07-20



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 www.iecex.com or use of this QR Code.



Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: **Pyromation LLC**
5211 Industrial Road
Fort Wayne, IN 46825
United States of America

Manufacturing
locations:

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:

DE/EPS/ExTR23.0023/00

Quality Assessment Report:

GB/SIR/QAR15.0011/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Temperature Transmitters Type T142 consist of an enclosure, made of aluminum or stainless steel, containing electronic circuits, terminals and optionally a display. The transmitter is used to convert the measurement signal of an external or an integral assembled temperature sensor into an output signal.

The transmitter provides a 4-20 mA current output signal with HART communication.

The equipment is intended for the application inside explosion hazardous area.

SPECIFIC CONDITIONS OF USE: YES as shown below:

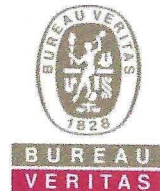
When the enclosure of the Temperature transmitter Type T142 is made of aluminum, if it is mounted in an area where the use of EPL Ga apparatus is required, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

Annex:

IECEX EPS 23.0019X_0 - Annex.pdf



Annex to IECEx Certificate of Conformity
IECEX EPS 23.0019X
Issue 0



Applicant: Pyromation LLC
5211 Industrial Road
Fort Wayne, IN 46825
United States

Electrical Apparatus: Temperature Transmitter, type T142

Description:

Electrical data:

Power supply
(Terminals + and -)

U _i	≤	30 V DC
I _i	≤	300 mA
P _i	=	1000 mW
C _i	=	5 nF
L _i	=	negligible

Sensor circuit
(Terminals 1 to 6)

U _o	≤	4.3 V DC
I _o	≤	4.8 mA
P _o	≤	5.2 mW

Max. connection values
Single values:

Ex ia IIC	Lo = 40 mH	Co = 10.4 µF
Ex ia IIB/ IIIC	Lo = 150 mH	Co = 160 µF
Ex ia IIA	Lo = 300 mH	Co = 1000 µF

Combined values:

Ex ia IIC	Lo = 50 mH and	Co = 3.0 µF
Ex ia IIB/ IIIC	Lo = 100 mH and	Co = 18 µF
Ex ia IIA	Lo = 100 mH and	Co = 48 µF



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Issue 0



Ambient temperature range:

The temperature class and the maximum surface temperature of the enclosure, applicable to a maximum dust layer thickness of 5 mm, are depending on the ambient temperature range, as listed in the following tables.

Gas application:

Type (order option)	Temperature class	Ambient temperature EPL Gb	Ambient temperature EPL Ga
T142 (without display)	T6	$-50^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$
	T5	$-50^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$
	T4	$-50^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
T142 (with display)	T6	$-50^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$
	T5	$-50^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$
	T4	$-50^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Dust application:

Type (order option)	Max surface temperature	Ambient temperature EPL Db
T142 (without display)	T85°C	$-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
	T100°C	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
	T110°C	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$
T142 (with display)	T85°C	$-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
	T100°C	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
	T110°C	$-40^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$