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 23.0018X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2023-07-11		
Applicant:	**Pyromation LLC** 5211 Industrial Road Fort Wayne, IN 46825 **United States of America**		
Equipment:	**Temperature Transmitter T82, T82 DIN Rail**		
Optional accessory:			
Type of Protection:	**Intrinsic safety "i"**		
Marking:	Head: Ex ia IIC T6...T4 Ga Ex ia IIC T6...T4 Gb DIN Rail: Ex ib [ia Ga] IIC T6...T4 Gb		

Approved for issue on behalf of the IECEx Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)

Ulrich Feike

Head of Certification

2023-07-14

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS 1828 Bureau Veritas CPS Germany GmbH

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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

BUREAU VERITAS 1828 BUREAU VERITAS

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Certificate No.: **IECEx EPS 23.0018X**

Date of issue: 2023-07-11

Issue No: 0

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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

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

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/ExTR23.0022/00

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 transmitter T82 or T82 DIN Rail, is a two wire transmitter with analogue output. It has measuring input circuits for resistance thermometers (RTD) in 2-, 3- or 4-wire connection, thermocouples and voltage transmitters.

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

The DIN Rail version is intended to be installed in control cabinets.

Refer to Annex for electrical data and temperature range.

SPECIFIC CONDITIONS OF USE: YES as shown below:

In hazardous areas it is not permitted to use the CDI interface of T82 for configuration.

Annex:

IECEx EPS 23.0018X_0 - Annex_1.pdf

Applicant:

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

Electrical Apparatus:

Temperature Transmitter, type T82 and T82 DIN Rail

Description:

Electrical data:

Head transmitter:

Power supply
(terminals + and -)

Ui	≤	30 V DC
Ii	≤	130 mA
Pi	=	800 mW
Ci	=	negligibly small
Li	=	negligibly small

Sensor circuit
(terminal 3 to 7)

Uo	≤	7.6 V DC
Io	≤	13 mA
Po	≤	24.7 mW

Max. connection values

Ex ia IIC	Lo = 10 mH	Co = 1 µF
Ex ia IIB	Lo = 50 mH	Co = 4.5 µF
Ex ia IIA	Lo = 50 mH	Co = 6.7 µF

Display interface
(CDI connection)

Uo	≤	7.6 V DC
Io	≤	130 mA
Ci	=	negligibly small
Li	=	negligibly small

Max. connection values

Ex ia IIC	Lo = 3.1 mH	Co = 0.64 µF
Ex ia IIB	Lo = 16 mH	Co = 3.8 µF
Ex ia IIA	Lo = 27 mH	Co = 12 µF

DIN Rail transmitter:

Power supply
(terminals + and -)

Ui	≤	30 V DC
Ii	≤	130 mA
Pi	=	770 mW
Ci	=	negligibly small
Li	=	negligibly small

Sensor circuit
(terminal 3 to 8)

Uo	≤	9 V DC
Io	≤	13 mA
Po	≤	29.3 mW

Max. connection values

Ex ia IIC	Lo = 5 mH	Co = 0.93 µF
Ex ia IIB	Lo = 20 mH	Co = 3.8 µF
Ex ia IIA	Lo = 50 mH	Co = 4.8 µF

Ambient temperature:

Type (order option)	**Temperature class**	**Ambient temperature Zone 1/EPL Gb**	**Ambient temperature Zone 0/ EPL Ga**
T82...	T6		-52°C ≤ Ta ≤ +46°C
T82...P	T5		-52°C ≤ Ta ≤ +60°C
Head transmitter without display	T4		-52°C ≤ Ta ≤ +60°C
T82...	T6	-40°C ≤ Ta ≤ +55°C	
T82...P	T5	-40°C ≤ Ta ≤ +70°C	
Head transmitter without display or with display (D10)	T4	-40°C ≤ Ta ≤ +85°C	
T82...D	T6	-40°C ≤ Ta ≤ +46°C	
(DIN rail transmitter)	T5	-40°C ≤ Ta ≤ +61°C	
	T4	-40°C ≤ Ta ≤ +85°C	