



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 CML 23.0187X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-12-06

Applicant: **Pressure Tech Limited**
Unit 24 Graphite Way
off Woolley Bridge Road
Hadfield
Derbyshire
SK13 1QH
United Kingdom

Equipment: **XHS-410 Series and XHM-410 Heated Pressure Regulators**

Optional accessory:

Type of Protection: **Flameproof Ex "db"**

Marking: Ex db IIC T3 Gb
Ta: -40 °C to +59 °C

Approved for issue on behalf of the IECEx
Certification Body:

Stelios Rumbedakis

Position:

Certification Manager

Signature:
(for printed version)

S. Rumbedakis

Date:
(for printed version)

2024-12-06

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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off Woolley Bridge Road
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Manufacturing locations: **Pressure Tech Limited**
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off Woolley Bridge Road
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Derbyshire
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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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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:

[GB/CML/ExTR23.0279/00](#)

Quality Assessment Report:

[GB/SIR/QAR09.0005/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The XHS-410 Series and XHM-410 Heated Pressure Regulators are single heated pressure regulators, available with side-entry (SE) or in-line (IL) configurations. They intended to be used to maintain sample gases in their vapour state.

Refer to Certificate Annex for full Product Description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex.

Annex:

[Certificate Annex IECEx CML 23.0187X Iss 0_1.pdf](#)

Annexe to: IECEx CML 23.0187X Issue 0
Apparatus: XHS-410 Series and XHM-410 Heated Pressure Regulators
Applicant: Pressure Tech Limited



Description

The XHS-410 Series and XHM-410 Heated Pressure Regulators are single heated pressure regulators, available with side-entry (SE) or in-line (IL) configurations. They intended to be used to maintain sample gases in their vapour state.

The Heated Pressure Regulators can be configured for either Side-Entry where heat transfer is less critical and where installations have height restrictions, or In-Line to maximises the heat transfer area.

The XHS-410 Series includes the XHS-410 and XHS-411 single heated pressure regulators with an electronically heated manifold to heat the flowing media and a diaphragm or piston sensed pressure regulator. The XHM-410 is a large version with a single heated manifold unit.

All Heated Pressure Regulator types use similar electronic circuits housed within the flameproof enclosure used to set temperature by either push-button-switch and display or via a serial interface. The set temperature is controlled at the regulator via feedback from a thermocouple located within the heater cartridges.

The XHS-410 Series Heated Pressure Regulators are fitted with a single heater sheath with a 100W cartridge heater. A thermal cut-off with a 70°C limit is located at the base of the cartridge. The XHM-410 is fitted with a 150W cartridge heater that is housed within the manifold block. A thermal cut-off with a 150 °C limit is located on the heater within the manifold block. The thermal cut-outs provide additional protection to prevent the regulators from exceeding the T3 temperature rating.

Certified Ex-Components

Manufacturer	Part Number / Type	Certificate Number	Marking
Precision Digital Corporation	EX and EC series	IECEX SIR 19.0075U	Ex db IIC Gb

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.



Certificate Annex IECEx
Version: 10.0 Approval: Approved



Eurofins E&E CML Limited
Newport Business Park, New Port Road
Ellesmere Port, CH65 4LZ, UK





Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. WARNING – Potential Electrostatic Charging Hazard – See Instructions.
- ii. The user shall ensure that the equipment is appropriately connected to earth.
- iii. The equipment shall not be exposed to vibrations exceeding 5m/sec².
- iv. The equipment shall be protected from mechanical impact in service by location or suitable guarding.
- v. To prevent damage being caused to the regulator, which may result in an ignition risk, it is the user's responsibility to ensure the equipment is operated in accordance with the manufacturer's instructions.

Components used which are covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEX SIR 19.0075U	IEC 60079-0 Ed 6	No applicable technical differences



Certificate Annex IECEX
Version: 10.0 Approval: Approved



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