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 TRC 12.0025X**

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Certificate history:
Issue 2 (2020-11-26)
Issue 1 (2016-01-04)
Issue 0 (2014-01-22)

Status: **Current**

Issue No: 3

Date of Issue: 2024-09-30

Applicant: **ESI Technology Limited**
Sensor House
Wrexham Technology Park
Wrexham
LL13 7YP
United Kingdom

Equipment: **Pressure Transmitters, GS4200, HI2000, HI2010, HP1003, HP1103, PR3100, PR3110, PR3200, PR3202, PR3400, PR3420, PR3440, PR3441, PR3800, PR3820, PR3840, PR3850, PR3860, PR3880, PR3900, PR3930, PR3940, PR3913, PR3920, PR9000 and PR9000DP**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: Ex ia IIC T4 Ga,

Ex ia IIIC T135°C Da,

Ex ia I Ma

Approved for issue on behalf of the IECEx Certification Body: **Stephen Winsor**

Position: **Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

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:

Element Materials Technology
Unit 1 Pendle Place
Skelmersdale
West Lancashire

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Manufacturer: **ESI Technology Limited**
Sensor House
Wrexham Technology Park
Wrexham
LL13 7YP
United Kingdom

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 Reports:

GB/TRC/ExTR12.0024/00 GB/TRC/ExTR12.0024/01 GB/TRC/ExTR12.0024/02
GB/TRC/ExTR12.0024/03

Quality Assessment Report:

GB/SIR/QAR13.0022/06

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The Pressure Transmitters are used to monitor oil, gas, water and other liquids in the process, medical, oil and gas industries and aerospace industries. They are modular in construction and either utilise similar electronic circuitry, which is coupled to either a strain gauge that is bridge mounted on a ceramic or steel pressure diaphragm, or use silicon-on-sapphire sensor technology. Pressure measurement is electronically converted into a 4-20mA output signal. Electrical connection is achieved via a polarised three-pin connection, a cable entry device or by the use of potting to form a captive cable. Both the body and pressure port of the transducer are manufactured from mild steel, stainless steel or aluminium (in some cases the pressure port is manufactured from titanium).

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The power source feeding the apparatus shall be an ATEX/IECEx approved barrier only.
2. For Transmitters constructed from titanium or powder coated aluminium enclosures, these shall only be situated in the hazardous areas where impact and friction sparks are avoided; in addition they shall be regularly inspected to ensure the coating is not damaged.
3. When plastic materials are used in the outer construction of the enclosure, these apparatus shall be cleaned only with a damp cloth.
4. For the maximum cable lengths stated the cable capacitance shall not exceed 200 pF/m otherwise the overall capacitance of Ci plus the cable capacitance shall not exceed 83 nF.
5. The pressure Transmitters have been ATEX and IECEx certified for an ambient temperature range, Tamb = -20 °C to +70 °C.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Update of standards applied.

Addition of a non-metallic guard option for Group I.

Additional connection method and housing materials.

Alternate circuitry components added.

Annex:

Annex to CoC IECEx TRC 12.0025X Iss 3.pdf