



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 EXV 20.0013** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-09-25

Applicant: **Hohner Automation**
Units 14-16 Whitegate Industrial Estate
Wrexham
LL13 8UG
United Kingdom

Equipment: **Hammer Union Pressure Sensor**

Optional accessory:

Type of Protection: **Ex 'i'**

Marking: Ex ia IIC T4 Ga (Ta = -40°C to +80°C)
(equipment may be marked with any temperature within this range)

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

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



Certificate issued by:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





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Manufacturer: **Hohner Automation**
Units 14-16 Whitegate Industrial Estate
Wrexham
LL13 8UG
United Kingdom

Additional
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:

[GB/EXV/ExTR20.0021/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0038/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Hammer Union Pressure Sensor HUS-XXX

SPECIFIC CONDITIONS OF USE: NO

TBC



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Equipment (continued):

The Hammer Union Pressure Sensor contains a pressure sensing element and complimentary circuitry. The device translates the sensor output to a 4-20 mA output signal which can be input into other industrial standard applications (such as a programmable logic controller). The electronics are housed in a metallic enclosure which is welded together to provide a hermetic seal when filled with encapsulating resin. The device is intended to be powered via a linear intrinsically safe barrier with the following entity parameters:

$U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 0.75\text{ W}$, $C_i = 48.4\text{ nF}$, $L_i = 11.94\text{ }\mu\text{H}$

HUS-ZXXX

Where:

- HUS = Product Type (Hammer Union Sensor)
- Z = one of the following types:
 - A for connector versions ($t_{amb} = +70^\circ\text{C}$)
 - B for permanently connected cable versions ($t_{amb} = +70^\circ\text{C}$)
 - C for connector versions ($t_{amb} = +80^\circ\text{C}$)
 - D for permanently connected cable versions ($t_{amb} = +80^\circ\text{C}$)
- X = Optional Alphanumeric characters not affecting certification

Note: Minimum length would be 4 characters. Maximum length would be 7 characters.

When in service the device only uses the pins PWR+/SIG+ (A) and PWR-/SIG- (B). The programming pins are not used when the device is commissioned.

Annex:

[IECEx Certificate Annex.pdf](#)

Description Continued:

The Hammer Union Pressure Sensor contains a pressure sensing element and complimentary circuitry. The device translates the sensor output to a 4-20 mA output signal which can be input into other industrial standard applications (such as a programmable logic controller). The electronics are housed in a metallic enclosure which is welded together to provide a hermetic seal when filled with encapsulating resin. The device is intended to be powered via a linear intrinsically safe barrier with the following entity parameters:

$$U_i = 30 \text{ V}, I_i = 100 \text{ mA}, P_i = 0.75 \text{ W}, C_i = 48.4 \text{ nF}, L_i = 11.94 \text{ } \mu\text{H}$$

The device can be manufactured to have a hermetically sealed connector or a cable to accommodate field wiring. The part number includes the following disambiguation:

HUS-ZXXX

Where:

- HUS = Product Type (Hammer Union Sensor)
- Z = one of the following types:
 - A for connector versions ($t_{amb} = +70^{\circ}\text{C}$)
 - B for permanently connected cable versions ($t_{amb} = +70^{\circ}\text{C}$)
 - C for connector versions ($t_{amb} = +80^{\circ}\text{C}$)
 - D for permanently connected cable versions ($t_{amb} = +80^{\circ}\text{C}$)
- X = Optional Alphanumeric characters not affecting certification

Note: Minimum length would be 4 characters. Maximum length would be 7 characters.

When in service the device only uses the pins PWR+/SIG+ (A) and PWR-/SIG- (B). The programming pins are not used when the device is commissioned.

Routine Tests:

None

Special Conditions for manufacture:

None

Manufacturer's documents Issue 0

Title:	Drawing No.:	Rev. Level:	Date:
Hammer Union Amplifier PCB	HMRU-PCB-IDT-001-02.pdf	2.0	02/09/2020
Marking Label	HUS-LB-001-01	1.0	14/09/2020
General Assembly	RM-AS-001-01	1.0	14/09/2020
Top section	RM-TS-001-01	1.0	01/06/2020
User Instructions	User instructions HUS-ZXXX	1.0	01/09/2020
Electronics bill of materials	HMRU-BOM-001-02 BOM	2.0	15/05/2020
Elastic element	RM-EL-001-01	1.0	05/02/2020
Compensation PCB	HMRU-PCB-COM-001-01	1.0	12/02/2020

Title:	Drawing No.:	Rev. Level:	Date:
HMRU-PCB-COM-001-01 .gbr	Gerber files	1.0	21/06/2020
HMRU-PCB-IDT-001-02 .gbr	Gerber files	1.0	02/04/2020
Stand-off connector	RM-SC-001-01	1.0	15/05/2020

