

1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 20ATEX0637 Issue: 1

4 Equipment: Hammer Union Pressure Sensor HUS-ZXXXX

5 Manufacturer: Hohner Automation Ltd

6 Address: Units 14-16, Whitegate Industrial Estate, Wrexham, UK, LL13 8UG

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN IEC 60079-0: 2018

EN 60079-11: 2012

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:



II 1G Ex ia IIC T4 Ga (Ta = -40°C to +80°C)

(equipment may be marked with any temperature within this range)

On behalf of ExVeritas



Peter Lauritzen
Managing Director

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13 Description of Equipment or Protective System

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.

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2357/A/1	14/09/2020	0	Initial issue of the Prime Certificate
R2357/A/1	25/01/2021	1	Certificate transferred from ExVeritas 2585 to ExVeritas 2804 Report and certificate numbers remain unchanged.

14.2 Compliance Drawings:

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

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Title:	Drawing No.:	Rev. Level:	Date:
Compensation PCB	HMRU-PCB-COM-001-01	1.0	12/02/2020
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

15 Conditions of Certification

15.1 Special Conditions for Safe Use

None.

15.2 Conditions for Use (Routine tests)

None.

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

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