

# 1 EU - Type Examination Certificate

Certificate Number:

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

ExVeritas 20 ATEX 0637

- 4 Equipment: Hammer union pressure sensor HUS-ZXXXXXX or HUT-ZXXXXXX
- 5 Manufacturer: Hohner Automation Ltd
- 6 Address: Units 14-16, Whitegate Industrial Estate, Wrexham, 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

Issue:

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- 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:



The device may be marked with any temperature within this range.



On behalf of ExVeritas



Peter Lauritzen Managing Director

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## Schedule

### 13 Description of Equipment or Protective System

The "Hammer union pressure sensor" (HUS-ZXXXXXX or HUT-ZXXXXXX) is a pressure sensor intended for static installation in explosive gas atmospheres classified as ATEX Category 1G. It 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 can be manufactured to have a hermetically sealed connector or a cable to accommodate field wiring.

The part number includes the following disambiguation:

HUS-ZXXXXXX or HUT-ZXXXXXX

Where:

- HUS/HUT = Product type identification
- Z = one of the following types:
  - A or C for connector versions (see table 1 & 2)
  - B or D permanently connected cable versions (see table 1 & 2)
- X = Optional Alphanumeric characters not affecting certification

The device is intended to be powered via a linear intrinsically safe barrier with the following entity parameters:

Table 1: Option A or B		
Parameter	Value	
Ui	30 V	
li	100 mA	
Pi	0.75 W	Or
Ci	31 nF	
Li	12 µH	
C/m	200 pF/m	
L/m	1 µH/m	

Table 2: Option C or D				
Parameter	Value			
Ui	30 V			
li	100 mA			
Pi	0.75 W			
Ci	31 nF			
Li	12 µH			
C/m	100 pF/m			
L/m	1 µH/m			

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 <u>Descriptive Documents</u>

#### 14.1 Associated Report and Certificate History:

Report	Date	Issue	Comment
R2357/A/1	14/09/2020	0	Initial issue of the Prime Certificate
-	25/01/2021	1	Certificate transferred from ExVeritas 2585 to ExVeritas 2804.
R4404/A/1	15/06/2023	2	Too many changes to summarise here, please see ExTR for changes.

#### 14.2 Compliance Drawings:

Title	Drawing number	Revision	Date
HMRU-PCB-COM-001-02 Gerber	HMRU-PCB-COM-001-02 Gerber	2	27/01/2022
HMRU-PCB-IDT-001-03 Gerbers	HMRU-PCB-IDT-001-03 Gerbers	3	18/05/2023
Hammer Union BOM	HMRU-BOM-001-03.pdf	3	12/06/2023
Hammer Union Compensation PCB	HMRU-PCB-COM-001-02.pdf	2	18/05/2023
Hammer Union Amplifier PCB	HMRU-PCB-IDT-001-03.pdf	3	08/06/2023
HUS/HUT Pressure Sensor Label (UKCA, IECEx & ATEX)	HUX-LB-001-02.pdf	2	19/06/2023
General Assembly for Hammer Union Sensor - HUT	RM-AS-002-01.pdf	1	20/06/2023

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Issue 2

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# Schedule

Title	Drawing number	Revision	Date
General Assembly for Hammer Union Sensor - HUS	RM-AS-001-02.pdf	2	19/06/2023
Cage for Hammer Union	RM-CG-001-01.pdf	1	16/06/2023
Elastic Element - HUS	RM-EL-001-02.pdf	2	18/05/2023
Elastic Element - HUT	RM-EL-002-01.pdf	1	18/05/2023
Assembly & Epoxy Location for Elastic Elements	RM-EP-001-01.pdf	1	18/05/2023
Hammer Union 3D Printed Insert (Block Version)	RM-IN-001-01.pdf	1	20/06/2023
Replaceable Connector Standoff	RM-RB-001-01.pdf	1	18/05/2023
Standoff for Connector and PCB	RM-SC-001-02.pdf	2	19/05/2023
Standoff for Replaceable Block and PCB	RM-SC-002-01.pdf	1	18/05/2023
Hammer Union 3D Printed Spiral	RM-SP-001-01.pdf	1	20/06/2023
Hammer Union 3D Printed Spiral (block version)	RM-SP-002-01.pdf	1	20/06/2023
Top section	RM-TS-001-02.pdf	2	18/05/2023
Top section (tube version)	RM-TS-002-01.pdf	1	18/05/2023
User Instructions HUS-ZXXXXXX	User Instructions HUS-ZXXXXXX.pdf	2	June 2023

### 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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