



# 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](http://www.iecex.com)

Certificate No.: **IECEX EXV 19.0082X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-02-19

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

Equipment: **MPL-XXXXXXX Mud Pit Level Sensor**

Optional accessory: N/A

Type of Protection: **Intrinsic safety**

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

Approved for issue on behalf of the IECEx  
Certification Body:

**S L D'Henin**

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.
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Certificate issued by:

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





# IECEX Certificate of Conformity

Certificate No.: **IECEX EXV 19.0082X**

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Date of issue: 2020-02-19

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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/ExTR19.0095/00](#)

Quality Assessment Report:

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



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Date of issue: 2020-02-19

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Hohner Mud Pit Level Sensor is a 4-20 mA (2-wires current loop output) ultrasonic transmitter. The electronic parts are housed in a plastic enclosure. The equipment includes an internal display board that includes the input connector. The rest of the boards where the infallible components are situated are all encapsulated. The enclosure includes one 2" NPT entry to be used with a suitable device rated as at least IP54.

Connector CON1 shall be connected to a linear approved barrier according to the following entity parameters:

$U_i = 30 \text{ V}$

$I_i = 100 \text{ mA}$

$P_i = 0.75 \text{ W}$

$C_i = 12 \text{ nF}$

$L_i = 0 \text{ H}$

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- Mud Pit Level Sensor MPL-XXXXXXX enclosure is made from non-metallic materials that under certain conditions may accumulate ignition-capable electrostatic charges. Therefore, for applications on areas classified as Category 1G / EPL Ga, it shall not be installed where the external conditions are conducive to the build-up of electrostatic charges. Additionally, the equipment may only be cleaned with a damp cloth.

## **Annex:**

[IECEX EXV 19.0082X - Attachment\\_1.pdf](#)

**Description Continued:**

None.

**Routine Tests:**

None.

**Manufacturer's documents:**

Title:	Drawing No.:	Rev	Date:
LEVT-PCB-CNT-001-03 ARTWORK	LEVT-PCB-CNT-001-03	3	29/11/2019
LEVT-PCB-DRV-001-02 ARTWORK	LEVT-PCB-DRV-001-02	2	04/10/2019
LEVT-PCB-LCD-001-03 ARTWORK	LEVT-PCB-LCD-001-03	3	04/10/2019
LEVT-PCB-LCD-002-01 ARTWORK	LEVT-PCB-LCD-002-01	1	04/10/2019
Level Transmitter BOM	LEVT-BOM-001-01	1	04/12/2019
Mud Pit Level Sensor Label (ATEX & IECEx)	MPL-LB-002-01	1	05/12/2019
Mud Pit Level Metal Insert / Support	MP-IN-001-01	1	04/10/2019
Mud Pit Level PCB Support	MP-SP-001-01	1	04/10/2019
Mud Pit Level PCB Element	MP-UL-001-01	1	04/10/2019
Mud Pit Level General Assembly	MP-AS-002-01	1	29/11/2019
Mud Pit Level Housing and Cover	MP-HO-003-01	1	29/11/2019
Level Transmitter Micro-Controller & Signal Processing	LEVT-PCB-CNT-001-03	3	29/11/2019
Level Transmitter High Voltage Driver	LEVT-PCB-DRV-001-02	2	29/11/2019
Level Transmitter LCD Display	LEVT-PCB-LCD-001-03	3	04/10/2019
Average Ultrasonic Power Density of Mud-pit Level Sensor	MR-REPORT-001-01	1	29/11/2019
User Instructions MPL-XXX	User Instructions MPL-XXX	1	Dec/2019