

1 EU - Type Examination Certificate

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

3 Certificate Number: ExVeritas 19ATEX0589X Issue: 1

4 Equipment: MPL-XXXXXXX Mud Pit Level Sensor

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 range within this Ta range

On behalf of ExVeritas



Peter Lauritzen
Managing Director

13 Description of Equipment or Protective System

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 barrier according to:

$U_i = 30 \text{ V}$
 $I_i = 100 \text{ mA}$
 $P_i = 0.75 \text{ W}$
 $C_i = 12 \text{ nF}$
 $L_i = 0 \text{ H}$

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2266/A/1	05/02/2020	0	Initial issue of the Prime Certificate
R2266/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:
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

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Issue 1

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Issue 1

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15 Conditions of Certification

15.1 Special Conditions for Safe Use

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.

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.