1 EU-Type Examination Certificate

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

3 Certificate Number: **ExVeritas 21 ATEX 0947X** **Issue: 1** **Date: 14/AUG/2025**

4 Equipment: gPIMS® Ex Wifi Field Control Unit
GP-FCU-WIFI-EX-CM

5 Manufacturer: Guided Ultrasonics Ltd.

6 Address: Unit 3, Brentwater Business Park, Wavemaker House, The Ham, Brentford, TW8 8HQ, United Kingdom

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 Chapter 4 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 IEC 60079-11:2024

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 section 15 of this certificate.

11 This EU-Type Examination Certificate relates only to the design, examination and tests of the specified equipmentor 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 IIB T4 Ga
-40 °C to +70 °C

DANAK
PROD Reg.No. 7044
Member of EA MLA

On behalf of ExVeritas

Peter T. Lauritzen

13 Description of Equipment or Protective System

The “gPIMS® Ex Wifi Field Control Unit” (referred to herein as the “FCU”) is intended for fixed installation in explosive gas environments identified as ATEX Category 1G, with gas group IIB and temperature classification T4. The FCU is designed to be connected to the Guided Ultrasonics gPIMS Sensor (referred to herein as the “Sensor”) which is an ultrasonic transducer which uses ultrasonic reflectometry for detection and measurement of pipe corrosion. The Sensor has a 55-way male connector which mates with the female 55-way connector on the FCU. Through this intrinsically safe connector the Sensor can be interrogated by the FCU which transfers the data through the included WiFi antenna back to its user. The FCU is supplied with two possible WiFi antennas which are included as part of this approval:

- Mobile mark SCR12-2400
- OSCAR41/X/NTYPEF/S/S/29

The FCU is powered using a battery pack which contains four SAFT LS33600 Lithium-Thionyl Chloride (primary) cells. The battery pack is manufactured in two possible variants:

1. GP-BATTM-EX-4AX
2. GP-BATTM-EX-4D

Item 1 is a complete battery pack with permanently connected cells (soldered). When item 1 is spent it a replacement with the same part number must be sourced from the manufacturer. Item 2 is identical except it has battery spring contacts to allow individual cells to be replaced (See CONDITON 1). Each battery pack is encapsulated with intrinsically safe circuitry. The device is intended to be used primarily with the following suitably approved sensors, however It is also possible to connect any suitably approved sensors which match the following limiting parameters in Table 1.

Guided Ultrasonics gPIMS Ex HT Sensor	Guided Ultrasonics gPIMS Sensor
IECEx EXV 23.0062X,	BAS21UKEX0567X
ExVeritas 23ATEX1732X	Bassefa14ATEX0067X
ExVeritas 23UKEX1733X	IECEx BAS 14.0031X

Table 1: Limiting parameters

Parameter	Signal pins	Logic pins
Uo	7.80 V	5.88 V
Io	471.69 mA	139.75 mA
Po	919.81 mW	205.44 mW
Co	67.33 µF	937.33 µF
Lo	639.21 µH	7.29 mH

14 Associated Report and Certificate History

Report	Date	Issue	Description
R3441/A/1	30-MAY-2022	0	Initial issue of the Prime Certificate
R5856/A/1	25-SEP-2025	1	Compiled to produce all salient information into a single report

Continued overleaf.

15 Special Conditions for Safe Use

1. When replacing cells within GP-BATTM-EX-4D the user shall always use SAFT LS33600, Primary Lithium Thionyl Chloride, 61.2 Wh, D-size cells.
2. The Souriau connector, and Mobile mark SCR12-2400 antenna exceeds the material limit placed on Aluminium for EPL Ga. Consequently, any impact or friction against this part presents an ignition risk. The user shall consider the suitability of the equipment for their application.

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 certificate and associated report.