

# EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)
3. EU type examination certificate Nr **ITS 14 ATEX 27973**
4. **Product:** Pressure FieldLab, model FLP1
5. **Manufacturer:** Ralston Instruments LLC **Applicant:** Ralston Instruments LLC
6. **Address:** 15035 Cross Creek Parkway **Address:** 15035 Cross Creek Parkway  
Newbury, OH 44065 USA Newbury, OH 44065 USA
7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.  
  
The examination and tests results are recorded in confidential technical evaluation Intertek Reports 101784734BOX-006e-h, dated August 5, 2015.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012, EN 60079-11: 2012, and EN 60079-26: 2007 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign X is placed after the certificate number, it indicates that the product 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 and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 1 G Ex ia IIC T4 Ga  
Tamb: -10°C to +50°C  
IP67

31-10-2019  
Certificate issue date



**Sandro Zornio**  
ATEX Certification Manager  
Intertek Italia S.p.A. (NB 2575)



This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.

PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

**Intertek Italia S.p.A.** Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy



## SCHEDULE

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### 13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The FLP1 Pressure FieldLab is a digital pressure gauge and is powered by an internal battery pack and contains a total of seven printed circuit boards including a Main Controller Board, Battery Protector Board, External Power Board, optional RF Board, Keypad Interface Board, USB Board, LCD Controller Board and Pressure Sensor.

Power to the Main Controller Board is supplied from the battery pack which contains the Battery Protector Board. There is also an External Power Board that connects to the Main Controller Board to charge the battery pack. The battery pack may be re-charged by either an AC/DC supply that outputs 15 V or a DC supply from a car charger that outputs up to 14.4 V. The chargers are not included in the scope of this investigation. The instructions state that the product is not to be charged in a hazardous location. When the unit is powered from an external source, a  $U_m$  of 21 V applies to the Power input terminals. There is also a USB input which is not to be used in a hazardous location. When the USB connection is employed a  $U_m$  of 5.25 V applies to the USB input terminals.

3.7 V Lithium Ion Battery;  $U_m = 21$  V (Power);  $U_m = 5.25$  V (USB)

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

### 14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
FLP1 REAR NAMEPLATE	DGAU-0315	5	8/20/2015
FLP1 HAZARDOUS LOCATION INSTRUCTIONS	DGAU-0323	0	8/3/2015
TRANSDUCER ASSEMBLY	DGAU-0342	0	6/26/2015
TRANSDUCER ASSEMBLY	DGAU-0343	0	6/26/2015
BATTERY ASSEMBLY	DGAU-0345	0	7/17/2015
LCD ASSEMBLY	DGAU-0346	0	7/17/2015
WIFI PCB	DGAU-0347	0	7/17/2015
BOARD, MAIN	DGAU-0348	0	7/17/2015
BOARD, POWER	DGAU-0349	0	7/17/2015
BOARD, USB	DGAU-0350	0	7/17/2015
BOARD, LCD CONTROLLER	DGAU-0351	0	7/17/2015
KEYPAD TAIL	DGAU-0352	0	6/29/2015



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TITLE	DOCUMENT Nr	LEVEL	DATE
CIRCUIT BOARD, BATTERY	DGAU-0353	0	7/17/2015
FLP1 DIGITAL PRESSURE DEVICE FULL ASSEMBLY	DGAU-0354	0	7/17/2015
FRONT HOUSING/EMI ASSEMBLY	DGAU-0355	0	7/16/2015
KEYPAD	DGAU-0356	0	7/16/2015
REAR HOUSING/EMI ASSEMBLY	DGAU-0357	0	7/16/2015
CAP, STANDARD ASSEMBLY	DGAU-0358	0	7/16/2015
WIFI CAP, ASSEMBLY	DGAU-0359	0	7/16/2015
FIELDLAB MAIN SEALING O-RING	DGAU-0360	0	7/23/2015
BOARDS, ASSEMBLY	DGAU-0361	0	7/16/2015
FIELDLAB RF MODULE AND BLANK CAP SEAL	DGAU-0362	0	7/17/2015

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

### 15. SPECIAL CONDITIONS FOR SAFE USE

None

### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Reports 101784734BOX-006e-h, dated August 5, 2015.

### 17. ROUTINE (FACTORY) TESTS

None

### 18. DETAIL OF CERTIFICATE CHANGES

None