



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx ETL 14.0039 Issue No: 0 Certificate history:
Issue No. 0 (2015-09-01)

Status: **Current** Page 1 of 3

Date of Issue: **2015-09-01**

Applicant: **Ralston Instruments LLC**
15035 Cross Creek Parkway
Newbury, OH 44065
United States of America

Electrical Apparatus: **FLP1 Pressure FieldLab**
Optional accessory:

Type of Protection: **Intrinsic Safety 'ia'**

Marking:
Ex ia IIC T4 Ga
-10°C ≤ Ta ≤ +50°C
IECEX ETL 14.0039

*Approved for issue on behalf of the IECEx
Certification Body:*

Don Card

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

2015-09-01

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.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America





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Certificate No: IECEx ETL 14.0039 Issue No: 0
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Manufacturer: **Ralston Instruments LLC**
15035 Cross Creek Parkway
Newbury, OH 44065
United States of America

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical 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:

[US/ETL/ExTR15.0006/00](#)

Quality Assessment Report:

[US/ETL/QAR15.0013/00](#)



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Issue No: 0

Date of Issue: 2015-09-01

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 covered by this certificate. 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)

See Annex for manufacturer's documents.

CONDITIONS OF CERTIFICATION: NO

Annex:

[Annex IECEx ETL 14_0039.pdf](#)



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Certificate No:	IEC Ex ETL 14.0039	Issue No. 0
Annex No. 1		

Manufacturer's documents

Drawings associated with Issue 0 of this certificate:

Title	Drawing No.:	Rev. 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
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

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