



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

Certificate No.: IECEx SIR 17.0034X

Issue No: 0

Certificate history:

Issue No. 0 (2017-09-19)

Status: **Current**

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Date of Issue: **2017-09-19**

Applicant: **Fluke Corporation**  
6920 Seaway Blvd.  
Everett  
Washington 98203  
**United States of America**

Equipment: **BETAGAUGE P.I. PRO-aa - Series and Fluke 700Gaa, 700RGaa - Series Pressure Meters**

*Optional accessory:*

Type of Protection: **Intrinsically Safe 'ic'**

Marking:  
Ex ic IIB T6 Gc  
Ta = -10°C to + 55°C

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

C Ellaby

*Position:*

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

Certificate issued by:

**SIRA Certification Service**  
CSA Group  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside, CH5 3US  
United Kingdom

**sira**  
CERTIFICATION





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Manufacturer: **Anhui Shifu Instruments Co Ltd**  
No 66 Longteng Road  
Jiujiang Economic Development Zone  
Wuhu, Anhui  
**China**

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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

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

[GB/SIR/ExTR17.0193/00](#)

Quality Assessment Report:

[NL/DEK/QAR17.0015/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Betagauge PI Pro and 700G Series Pressure Gauges are digital pressure test gauges. The difference between Betagauge PI Pro and 700G is the label, enclosure manifold, plus 14 different gauge ranges and configurations for the Betagauge, and 23 configurations for the 700G series, as listed below. The Pressure Gauge is considered fixed equipment.

The Products can be used as a calibration reference, or in any application where accurate pressure measurement is required. The product has a protective elastomer cover, three LR6 AA Batteries in a secure, sealed holder, and NPT pressure interface. Refer to the Annexe for the model codes and other information.

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

- i. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge therefore; the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
- ii. The three AA cells shall only be replaced when there is no hazardous atmosphere present, with any 1.5V, AA size, alkaline zinc-manganese dioxide, IEC-LR6, with an operating temperature range of -20°C to +55°C, all three cells to be the same type and manufacturer.

### Annex:

[IECEX SIR 17.0034X Annexe Issue 0.pdf](#)

**Annexe to:** IECEx SIR 17.0034X Issue 0  
**Applicant:** Fluke Corporation  
**Apparatus:** BETAGAUGE P.I. PRO-aa and Fluke  
 700Gaa, 700RGaa - Series Pressure  
 Meters



Model 700Gaa, 700RGaa, Digital Pressure Test Gauge, battery powered (3 size LR6 AA alkaline cells). Ambient temperature -10°C to +55°C, 10,000 psi. max.

Where:

aa = 01, 02, 04, 05, 06, 07, 08, 10, 27, 29, 30, 31, A4, A5, A6, A27, RG05, RG06, RG07, RG08, RG29, RG30, RG31

700G Model Codes	Parameter/Range
01	-10 to 10inH2O
02	30 inH2O
04	0 to 15 PSI
05	0 to 30 PSI
06	0 to 100 PSI
07	0 to 500 PSI
08	0 to 1000 PSI
10	0 to 2000 PSI
27	0 to 300 PSI
29	0 to 3000 PSI
30	0 to 5000 PSI
31	0 to 10000 PSI
A4	0 to 15 PSIA
A5	0 to 30 PSIA
A6	0 to 100 PSIA
A27	0 to 300 PSIA
RG05	-14 to 30 PSI
RG06	-12 to 100 PSI
RG07	-10 to 500 PSI
RG08	1000psi
RG29	3000psi
RG30	5000psi
RG31	10000psi

**Annexe to:** IECEx SIR 17.0034X Issue 0

**Applicant:** Fluke Corporation

**Apparatus:** BETAGAUGE P.I. PRO-aa and Fluke  
700Gaa, 700RGaa - Series Pressure  
Meters



Model BETAGAUGE P.I. PRO-aa, Digital Pressure Test Gauge, battery powered (3 size AA alkaline cells). Ambient temperature  $-10^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ , 10,000 psi. max.

Where:

aa = 0.4C, 001C, 015G, 015C, 030G, 030C, 100G, 300G, 500G, 01K, 02K, 03K, 05K, 10K

The first three characters indicating the full scale pressure in psi.

Models up to 500psi include either a following G for Gauge pressure or C for combination (absolute) pressure.

BETAGAUGE P.I. PRO-Model Codes	Parameter/Range
0.4C	0 to 0.4 PSI Combination Gauge / Absolute
001C	0 to 1 PSI Combination Gauge / Absolute
015G	0 to 15 PSI Gauge
015C	0 to 15 PSI Combination Gauge / Absolute
030G	0 to 30 PSI Gauge
030C	0 to 30 PSI Combination Gauge / Absolute
100G	0 to 100 PSI Gauge
300G	0 to 300 PSI Gauge
500G	0 to 500 PSI Gauge
01K	0 to 1000 PSI
02K	0 to 2000 PSI
03K	0 to 3000 PSI
05K	0 to 5000 PSI
10K	0 to 10000 PSI

#### Non-hazardous area connection to data download socket

The equipment data download shall only take place in a safe area. The maximum parameters that can be applied to the download connector J4 are  $U_i = 18\text{V}$ ,  $P_i = 0.5\text{W}$ .