



1 **TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 17ATEX4160X** Issue: **0**

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

5 Applicant: **Fluke Corporation**

6 Address: 6920 Seaway Blvd.
Everett
Washington 98203
USA

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to European Union Directive 2014/34/EU of the European Parliament and of the Council, 26 February 2014.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2012/A11:2013 EN 60079-11:2012

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use specified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following:



II 3 G
Ex ic IIB T6 Gc
Ta = -10°C to + 55°C

Project Number 70128671

C Ellaby
Deputy Certification Manager

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SCHEDULE

TYPE EXAMINATION CERTIFICATE

**Sira 17ATEX4160X
Issue 0**

13 DESCRIPTION OF EQUIPMENT

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.

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



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Model BETAGAUGE P.I. PRO-aa, Digital Pressure Test Gauge, battery powered (3 size AA alkaline cells). Ambient temperature -10°C to +55°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 must take place in a safe area. The maximum parameters that can be applied to the download connector J4 are $U_i = 18V$, $P_i = 0.5W$.

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	19 September 2017	R70128671A	The release of the prime certificate.

15 **SPECIFIC CONDITIONS OF USE**

15.1 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.

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Sira Certification Service

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Sira 17ATEX4160X
Issue 0

- 15.2 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.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of Type Examination Certificates are required to comply with the production control requirements defined in Article 13 of Directive 2014/34/EU.

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Certificate Annexe



Certificate Number: Sira 17ATEX4160X
Equipment: BETAGAUGE P.I. PRO-aa - Series Pressure Meters and Fluke 700Gaa, 700RGaa - Series Pressure Meters
Applicant: Fluke Corporation

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D2112227	1 to 3	006	07 Aug 17	Schematic, Pressure Gauge, (F700-1001)
D2114697	1 of 1	002	24 Aug 17	Block Diagram, Betagauge Ex
D2109496	1 of 1	004	05 Jun 17	PCB, Pressure Indicator PCB
D2102445	1 of 1	006	05 Jun 17	PCA, Pressure Indicator PCA
D2101877	1 to 2	004	14 Sep 17	Bat Door Label 700G, Betagauge
D2100908	1 of 1	004	05 Jun 17	Battery Door
D2100910	1 of 1	003	05 Jun 17	Case Top Tapped
D2101654	1 of 1	003	05 Jun 17	Case Btm Vented
D2073112	1 of 1	004	05 Jul 17	Manifold, Fluke 700G
D2064425	1 of 1	006	05 Jun 17	Manifold, Betagauge
D2100898	1 of 1	004	05 Jun 17	Gasket, Case 700GXX IP
D2100900	1 of 1	003	05 Jun 17	Gasket, Manifold
D2100902	1 of 1	003	05 Jun 17	Gasket, Sensor
D2100906	1 of 1	009	05 Jun 17	Seal Battery Door
4735418	1 to 10	003	18 Sep 17	700G PCB Artwork.

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