

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **Baseefa03ATEX0005X – Issue 10**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **E+ Access Panel Types AP1, AP2, AP5 and AP7**

5 Manufacturer: **Gai-Tronics Limited (A Division of Hubbell Limited)**

6 Address: **Brunel Drive, Stretton Business Park, Burton-Upon-Trent, Staffordshire,
DE13 0BZ**

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa03ATEX0005X** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0: 2018 EN 60079-11: 2012

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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 2 G Ex ib IIB T4 Gb (-20°C to +58°C)**

SGS Fimko Oy Customer Reference No. **0752**

Project File No. **21/0335**

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SGS Fimko Oy
Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 (0)9 696 361
e-mail sgs.fimko@sgs.com
web site www.sgs.fi

Business ID 0978538-5 Member of the SGS Group (SGA SA)



Tuomas Hänninen
SGS Fimko Oy

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Schedule

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Certificate Number Baseefa03ATEX0005X – Issue 10

15 Description of Product

The E+ Access Panel Types AP1, AP2, AP5 and AP7 are designed for use with the Public Address and General Alarm (PAGA) system. It provides the facility for making audio announcements and for sounding and cancelling alarms and provides two sets of control and audio signals which are isolated from each other.

The front panel is fitted with an array of LEDs, push button switches and a stalk mounted or hand held microphone. Inside there are two identical main boards mounted on a common interface board. Screw terminals for incoming connecting wires are mounted along one edge of the interface board.

Input/Output Parameters

Models AP1, AP2 and AP5

Connector TB4 – System A or B Power Input

$$U_i = 28V$$

$$I_i = 93mA$$

$$P_i = 0.65W$$

$$C_i = 0$$

$$L_i = 0$$

$$U_o = 0$$

$$I_o = 0$$

Connector TB3

Not for use in a hazardous area.

Connector TB2 – System A or B Data Connections

$$U_i = 7.5V$$

$$I_i = 750mA$$

$$P_i = 1.41W$$

$$C_i = 0$$

$$L_i = 0$$

$$U_o = 9.2V$$

$$I_o = 93mA$$

$$P_o = 0.65W$$

Connector TB1 – System A or B Audio Connections

$$U_i = 7.5V$$

$$I_i = 750mA$$

$$P_i = 1.41W$$

$$C_i = 0$$

$$L_i = 0$$

$$U_o = 4.5V$$

$$I_o = 18mA$$

$$P_o = 4mW$$

Model AP7

Connector TB4 – System A Power Input

$$U_i = 28V$$

$$I_i = 93mA$$

$$P_i = 0.65W$$

$$C_i = 0$$

$$L_i = 0$$

$$U_o = 0$$

$$I_o = 0$$

Connector TB3

Not for use in a hazardous area.

Connector TB2 – System A Data Connections

$U_i = 7.5V$
 $I_i = 750mA$
 $P_i = 1.41W$
 $C_i = 0$
 $L_i = 0$
 $U_o = 9.2V$
 $I_o = 93mA$
 $P_o = 0.65W$

Connector TB1 – System A Audio Connections

$U_i = 7.5V$
 $I_i = 750mA$
 $P_i = 1.41W$
 $C_i = 0$
 $L_i = 0$
 $U_o = 4.5V$
 $I_o = 18mA$
 $P_o = 4mW$

Connector TB8 – System B Power Input

The parameters for this connector are identical to those for TB4.

Connector TB7

The parameters for this connector are identical to those for TB3.

Connector TB6 – System B Data Connections

The parameters for this connector are identical to those for TB2.

Connector TB5 – System B Audio Connections

The parameters for this connector are identical to those for TB1.

16 Report Number

GB/BAS/ExTR21.0169/00

17 Specific Conditions of Use

1. Models AP1, AP2 and AP5 have non-metallic enclosures or parts of enclosures. These constitute an electrostatic hazard and must not be installed in a position that would subject them to a fast-flowing dust laden atmosphere. Additionally, the equipment must only be cleaned with a damp cloth.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
319-01-0000-000	5 of 6	9	07/01/13	Elemec Plus Access Panel Type AP Certification Label
500-01-0636-000	1 of 2	4	13/02/14	Elemec Plus Access Panel Type AP7 General Arrangement
500-01-0632	1 of 1	5	19/09/19	Elemec Plus Access Panel Type AP5 General Arrangement

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
319-01-0000-000	1 of 6	8	07/12/04	E+ Access Panel Block Diagram
319-01-0000-000	2 of 6	9	19/09/19	ELEMEC Plus Access Panel Type AP1 General Arrangement
319-01-0000-000	3 of 6	9	19/09/19	ELEMEC Plus Access Panel Type AP2 General Arrangement
319-01-0000-000	4 of 6	11	16/12/13	ELEMEC Plus Access Panel Component Details
319-01-0000-000	6 of 6	5	27/01/03	Details of Plastic Removable Cover
500-01-0636-000	2 of 2	2	09/01/13	E+ Access Panel AP7 (IP66) Block Diagram
500-01-0658-001	1 of 1	2	19/01/19	E Plus Access Panel Type AP2 Alternative Mounting General Arrangement
999-01-1018-000	1 of 5	3	13/12/02	E+ Access Panel Keypad PCB Schematic
999-01-1018-000	2 of 5	4	06/01/03	E+ Access Panel Keypad PCB Artwork Layer 1
999-01-1018-000	3 of 5	4	06/01/03	E+ Access Panel Keypad PCB Artwork Layer 2
999-01-1018-000	4 of 5	4	06/01/03	E+ Access Panel Keypad PCB Artwork Top Ident
999-01-1018-000	5 of 5	4	06/01/03	E+ Access Panel Keypad PCB Artwork Bottom Ident
999-01-1044-000	1 of 4	3	23/04/04	E+ Access Panel Termination PCB Schematic
999-01-1044-000	2 of 4	4	13/02/04	E+ Access Panel Termination PCB Artwork Layer 2
999-01-1044-000	3 of 4	4	13/02/04	E+ Access Panel Termination PCB Artwork Top Ident
999-01-1044-000	4 of 4	4	13/02/04	E+ Access Panel Termination PCB Artwork Layer 1
999-01-1019-000	1 of 7	7	19/07/18	E+ Access Panel (IIB) Main PCB Schematic
999-01-1019-000	2 of 7	5	13/02/04	E+ Access Panel Main PCB Artwork Layer 1
999-01-1019-000	3 of 7	5	13/02/04	E+ Access Panel Main PCB Artwork Layer 2
999-01-1019-000	4 of 7	5	13/02/04	E+ Access Panel Main PCB Artwork Layer 3
999-01-1019-000	5 of 7	5	13/02/04	E+ Access Panel Main PCB Artwork Layer 4
999-01-1019-000	6 of 7	5	13/02/04	E+ Access Panel Main PCB Artwork Top Ident
999-01-1019-000	7 of 7	5	13/02/04	E+ Access Panel Main PCB Artwork Bottom Ident
999-01-1112-001	1 of 4	1	03/07/08	Interface PCB Artwork Top Layer
999-01-1112-001	2 of 4	1	03/07/08	Interface PCB Artwork Bottom Layer
999-01-1112-001	3 of 4	1	22/07/08	Interface PCB Top Ident
999-01-1112-001	4 of 4	1	10/07/08	IS Access Panel Interface PCB Schematic

These drawings are common to IECEx BAS 08.0066X and BAS21UKEX0299X and held with IECEx BAS 08.0066X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa03ATEX0005X	3 February 2003	The release of the prime certificate. The associated test and assessment is documented in Test Report No. 02(C)0298.
Baseefa03ATEX0005X/1	23 April 2004	To permit minor changes to the circuit and the addition of models AP3 and AP4 into the certification. The associated test and assessment is documented in Test Report No. 04(C)0148
Baseefa03ATEX0005X/2	5 January 2005	To permit models AP1, AP2, AP3 and AP4 to use the same interface PCB 999-02-1044.
Baseefa03ATEX0005X/3	14 October 2005	To permit an alternative enclosure for the AP-2 thus making AP-5 and an alternative enclosure for AP-4 thus making AP-6.
Baseefa03ATEX0005X/4	29 September 2008	To permit the introduction of AP7 and AP8 into the certification. To confirm that all models have been assessed to EN 60079-0:2009 & EN 60079-11:2007 in respect of the differences from EN 50014:1997 + A1 & A2 and EN 50020:2002, and that none of these differences with the exception of the marking affect this equipment. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR08.0132
Baseefa03ATEX0005X/5	30 October 2009	To permit an increase in the upper ambient from +45°C to +58°C. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR09.0211/00.
Baseefa03ATEX0005X Issue 6	6 February 2013	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate. To confirm that models AP3, AP4, AP6 and AP8 are considered obsolete and removed from the certification. To confirm that models AP1, AP2 AP5 and AP7 have been assessed against EN60079-0:2012 and EN60079-11:2012 in respect to the differences from EN 60079-0:2009 and EN 60079-11:2007, and that none of these differences with the exception of the marking affect this equipment. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR/12.0252/00.
Baseefa03ATEX0005X Issue 7	10 March 2014	To permit the use of alternative microphone types Primo DH51 and DH51C To permit the use of an alternative enclosure for model AP 2 To permit minor drawing changes that do not affect the intrinsic safety of the equipment.
Baseefa03ATEX0005X Issue 8	14 August 2018	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN 60079-0: 2012 + A11: 2013 and EN 60079-11: 2012 including the revision of the equipment marking in accordance with these standards. The assessment permits the use of alternative components on the electrical circuit and correction of formatting errors that do not impact the concept of protection. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR18.0189/00 for project 18/0457.

Certificate No.	Date	Comments
Baseefa03ATEX0005X Issue 9	17 October 2019	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN 60079-0: 2012 + A11: 2013 and EN 60079-11: 2012 including the revision of the equipment marking in accordance with these standards. The assessment further permits the use of an alternative mechanical construction that does not impact the concept of protection. The variation also covers minor typographical corrections to the ATEX certificate not affecting the concept of protection. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR19.0245/00 for project 19/0303.
Baseefa03ATEX0005X Issue 10	6 December 2021	This issue of the certificate confirms the current design meets the requirements of EN IEC 60079-0:2018. The assessment is documented in IECEX ExTR GB/BAS/ExTR21.0169/00 and held with Project No. 21/0335.
For drawings applicable to each issue, see original of that issue.		