IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx BAS 08.0066X**

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Status: **Current**

Issue No: 6

Certificate history:
Issue 5 (2019-09-06)
Issue 4 (2018-08-14)
Issue 3 (2014-03-10)
Issue 2 (2013-02-06)
Issue 1 (2009-11-04)
Issue 0 (2008-09-30)

Date of Issue: 2021-12-16

Applicant: **Gai-Tronics (A Division of Hubbell Limited)**
Brunel Drive
Stretton Business Park
Burton-Upon-Trent
Staffordshire
DE13 0BZ
United Kingdom

Equipment: **E+ IS Access Panels AP1, AP2, AP5 & AP7**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ib IIB T4 Gb (-20°C to +58°C)**

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

Position: **Technical Manager**

Signature: (for printed version)

Date: 16/12/21

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 www.iecex.com or use of this QR Code.

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

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Date of issue: 2021-12-16 Issue No: 6

Manufacturer: **Gai-Tronics (A Division of Hubbell Limited)**
Brunel Drive
Stretton Business Park
Burton-Upon-Trent
Staffordshire
DE13 0BZ
United Kingdom

Additional manufacturing locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

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

GB/BAS/ExTR08.0132/00
GB/BAS/ExTR09.0211/00
GB/BAS/ExTR12.0252/00
GB/BAS/ExTR14.0032/00
GB/BAS/ExTR18.0189/00
GB/BAS/ExTR19.0245/00
GB/BAS/ExTR21.0169/00

Quality Assessment Report:

GB/BAS/QAR06.0039/10

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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.

The terminal parameters are defined in the annex to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Models AP1, AP2 and AP5 have non-metallic enclosures or parts of enclosures. These constitute an electrostatic hazard and must be cleaned only with a damp cloth.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 6.1

To update the standards and confirm compliance to IEC 60079-0, Edition 7.

ExTR: **GB/BAS/ExTR21.0169/00**	File Reference: 21/0335

Annex:

IECEx BAS 08.0066X Annex iss2.pdf

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Apparatus Terminal Parameters

The cable parameters for the data connections and the audio connections are not calculated here as the effect of the external barriers would have to be taken into account.

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 Connection

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