TM	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 14.0165	Page 1 of 4	Certificate history:					
Status:	Current	Issue No: 8	Issue 7 (2024-02-22) Issue 6 (2021-12-16)					
Date of Issue:	2025-01-02		Issue 5 (2019-08-13) Issue 4 (2018-11-27)					
Applicant:	Hubbell Limited t/a GAI-Tronics Ashton Road Bredbury Park Industrial Estate Bredbury Stockport SK6 2QN United Kingdom		Issue 3 (2016-12-21) Issue 2 (2015-11-11) Issue 1 (2015-07-14) Issue 0 (2015-01-16)					
Equipment:	Auteldac 5							
Optional accessory:								
Type of Protection:	Increased Safety, Encapsulation, Intrinsic	Safety, Dust Protection by Enclosure						
Marking: Approved for issue o Certification Body: Position: Signature:	Ex eb ib mb IIC T4 Gb (Ta = -40°C to +60°C Ex eb ib mb IIC T5 Gb (Ta = -40°C to +50°C Ex ib tb IIIC T180°C Db (Ta = -40°C to +60°	C) C) - Dust certified models only D Brearley Lead Certification Engineer						
(for printed version)		Brender						
Date: (for printed version)		2/1/2025						
 This certificate and s This certificate is noi The Status and auth 	schedule may only be reproduced in full. It transferable and remains the property of the issuing bo enticity of this certificate may be verified by visiting www	dy. .iecex.com or use of this QR Code.						
Certificate issued	l by:							
SGS UK Limit Rockhead Busin Staden Lane Buxton, Derbys	ed ness Park hire SK17 9RZ	S	GS Baseefa					



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Date of issue:	2025-01-02	Issue No: 8			
Manufacturer:	Hubbell Limited t/a GAI-Tronics				
	Bredbury Park Industrial Estate Bredbury Stockport SK6 2QN United Kingdom				
Manufacturing locations:	Hubbell Limited t/a GAI-Tronics Ashton Road Bredbury Park Industrial Estate Bredbury Stockport SK6 2QN United Kingdom				
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 a to comply with the fo	any acceptable variations to it specified in the schedule of this cert llowing standards	ificate and the identified documents, was found			
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirement	ents			
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrin	sic safety "i"			
IEC 60079-18:2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "r	n"			
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection	ction by enclosure "t"			
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increa	sed safety "e"			
	This Certificate does not indicate compliance with safety an other than those expressly included in the Stand	d performance requirements ards 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/ExTR12.0282/01 GB/BAS/ExTR18.0014/00 GB/BAS/ExTR23.0061/00 GB/BAS/ExTR15.0201/00 GB/BAS/ExTR19.0208/00 GB/SGS/ExTR24.0219/00 GB/BAS/ExTR15.0377/00 GB/BAS/ExTR21.0217/00

Quality Assessment Report:

GB/SGS/QAR24.0002/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Auteldac 5 is a rugged weatherproof telephone for use in explosive atmospheres designed to be used with PBX/PSTN networks. The handset may be supplied with either a curly cord or a stainless steel cord. The optional keypad may have up to 18 buttons.

A headset may be connected via a socket that is either mounted to the enclosure front or mounted on a fixed cable.

It comprises an encapsulated main circuit board and an unencapsulated keypad circuit board housed inside a sealed glass reinforced polyester body.

The external terminations are made via component certified glands at Ex eb approved terminal blocks. Connections are made for the telephone wire, a ring relay (NO contacts which closes in sympathy with cadence), and opto-isolated loop contacts (NO contact which closes whilst the phone is off hook). Gland holes are provided for cable entry and an earthing stud may be used to ground.

The component certified terminals are covered by IECEx SIR 05.0035U using IEC 60079-0 ed.4 and IEC 60079-7 ed.3.

Models that are painted have an Equipment Protection Level of Gb. Models that are not painted have an Equipment Protection Level of Gb and Db.

See Annex for terminal parameters.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 8.1

To permit the change of certificate holders name and address..

ExTR: GB/SGS/ExTR24.0219/00

File Reference: 24/0534

Annex:

IECEx BAS 14.0165 annex 3_1.pdf

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



ANNEX to IECEx BAS 14.0165

Issue No. 3

Date: 2024/02/14

Telephone Connection TB 7 to 12

TERMINAL PARAMETERS

 $U_{\rm m}$ = 253Vrms

The equipment is designed as having a rated off hook voltage of 40V d.c and a rated-on hook voltage of 70Vd.c. plus either 70V r.m.s. ≤60Hz continuous or 100V r.m.s. ≤60Hz cadenced at 50:50 duty cycle. The maximum power input is defined as 15W (IEC60950:2005 cl. 1.4.11). This is intended to be compatible with a standard PBX/PSTN.

Loop Contact TB 1 & 2

 $U_{\rm m}$ = 253Vrms

The loop contacts are designed to switch 250V a.c. at up to 150mA.

Ringing Contact TB 3 & 4

 $U_{\rm m}$ = 253Vrms

The ringing contacts are designed to switch 250V a.c. at up to 3A.

Headset Connector

11	- 8 51\/
U_0	= 0.01 v

- *l*_o = 0.081A
- $P_{\rm o} = 0.132 {\rm W}$
- $C_i = 0.6 \mu F$
- L_i = negligible

The capacitance and either the inductance or inductance to resistance ratio (L/R) of the load connected to hazardous area terminals must not exceed the following values:

GROUP	CAPACITANCE (µF)	INDUCTANCE (mH)	OR	L/R RATIO (µH/ohm)
IIC	5.8	5.44		180
IIB	57.4	21.7		720
IIA	999.4	43.5		1440

The parameters in the table above apply when one of the two conditions below is given:

- the total Li of the external circuit (excluding the cable) is < 1% of the Lo value or

- the total Ci of the external circuit (excluding the cable) is < 1% of the Co value.

The parameters in the table above are reduced to 50% when both of the two conditions below are given:

- the total Li of the external circuit (excluding the cable) ≥1% of the Lo value and

- the total Ci of the external circuit (excluding the cable) ≥1% of the Co value.

The reduced capacitance of the external circuit (including cable) shall not be greater than 1μ F for Groups I, IIA, IIB & IIIC, and 600nF for Group IIC.

The values of Lo and Co determined by this method shall not be exceeded by the sum of all of the Li plus cable inductances in the circuit, and the sum of all the Ci plus cable capacitances respectively.