

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**  
**UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS21UKEX0302 Issue 2**

4 Product: **Auteldac 5**

5 Manufacturer: **Hubbell Limited t/a GAI-Tronics**

6 Address: **Ashton Road, Bredbury Park Industrial Estate, Bredbury, Stockport, SK6 2QN  
United Kingdom**

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

8 SGS United Kingdom Ltd. (formerly SGS Baseefa Ltd.), Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

8.1 The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the name change to SGS United Kingdom Ltd. Such certificates remain valid with their original number.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

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

**EN IEC 60079-0: 2018      EN IEC 60079-7: 2015 + A1: 2018      EN 60079-11: 2012**  
**EN 60079-18: 2015 + A1: 2017      EN 60079-31: 2014**

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 UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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:

 **See Certificate Schedule**

SGS Customer Reference No. **8349**

Project File No. **24/0534**

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**D BREARLEY**  
**LEAD CERTIFICATION ENGINEER**  
On behalf of SGS United Kingdom Limited

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## Schedule

14

Certificate Number BAS21UKEX0302 – Issue 2

### 15 Description of Product

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 front entry curly cord or a side entry 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 equipment certified cable 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 contacts that close whilst the phone is off hook). Gland holes are provided for cable entry and an earthing stud may be used to ground.

The terminals are component certified under SIR01ATEX3247U using EN 60079-0:2004 and EN 60079-7:2003.

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.

Models certified for gas are marked: -

Ex II 2G	Ex eb ib mb IIC T4 Gb (-40°C ≤ Ta ≤ +60°C)
Ex II 2G	Ex eb ib mb IIC T5 Gb (-40°C ≤ Ta ≤ +50°C)

Models certified for gas/dust are marked: -

Ex II 2GD	Ex eb ib mb IIC T4 Gb (-40°C ≤ Ta ≤ +60°C)
	Ex eb ib mb IIC T5 Gb (-40°C ≤ Ta ≤ +50°C)
	Ex ib tb IIIC T180°C Db (-40°C ≤ Ta ≤ +60°C)

### TERMINAL PARAMETERS

#### Telephone Connection TB 7 to 12

$$U_m = 253V_{rms}$$

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

$$U_m = 253V_{rms}$$

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

#### Ringling Contact TB 3 & 4

$$U_m = 253V_{rms}$$

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

Headset Connector

$$\begin{aligned}U_o &= 8.51V \\I_o &= 0.081A \\P_o &= 0.132W \\C_i &= 0.6\mu F \\L_i &= \text{negligible}\end{aligned}$$

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 ( $\mu F$ )	INDUCTANCE (mH) OR	L/R RATIO ( $\mu H/ohm$ )
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  $L_i$  of the external circuit (excluding the cable) is  $< 1\%$  of the  $L_o$  value or
- the total  $C_i$  of the external circuit (excluding the cable) is  $< 1\%$  of the  $C_o$  value.

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

- the total  $L_i$  of the external circuit (excluding the cable)  $\geq 1\%$  of the  $L_o$  value and
- the total  $C_i$  of the external circuit (excluding the cable)  $\geq 1\%$  of the  $C_o$  value.

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

The values of  $L_o$  and  $C_o$  determined by this method shall not be exceeded by the sum of all of the  $L_i$  plus cable inductances in the circuit, and the sum of all the  $C_i$  plus cable capacitances respectively.

**16 Report Number**

See Item 20 – Certificate History

**17 Specific Conditions of Use**

None

**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**

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
212-01-5000-001	2	002	25-11-21	Auteldac 5 External General Arrangement
212-01-5000-001	5 of 7	003	03-12-24	*Auteldac 5 Certification Label

For all other drawings, see Baseefa14ATEX036 Issue 7.

20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0302 Issue 0	6 December 2021	The release of the prime certificate. The associated test and assessment against the requirements of EN IEC 60079-0: 2018, EN IEC 60079-7: 2015 + A1: 2018, EN 60079-11: 2012, EN 60079-18: 2015 + A1: 2017, and EN 60079-31: 2014 is documented in GB/BAS/ExTR21.0217/00 for project 21/0336.
BAS21UKEX0302 Issue 1	22 February 2024	This issue of the certificate permits new headset terminal parameters, and the use of a cable mounted headset connector as an alternative to the existing fixed headset connector. See Test Report GB/BAS/ExTR23.0061/00 for Project No. 22/0556
BAS21UKEX0302 Issue 2	2 January 2025	This certificate issue is to permit a change to the certificate holder's name and address. <b>Report Number:</b> GB/SGS/ExTR24.0219/00 <b>Project Number:</b> 24/0534
For drawings applicable to each issue, see original of that issue.		