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 Number: **Baseefa14ATEX0362 – Issue 7**

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: **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 re-issued certificate extends EC Type Examination Certificate No. **Baseefa14ATEX0362** 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 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 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:

See Certificate Schedule

SGS Fimko Oy Customer Reference No. **8349** Project File No. **24/0534**

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13 # Schedule

14 ## Certificate Number Baseefa14ATEX0362 – Issue 7

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 = 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_m = 253Vrms

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

Ringing Contact TB 3 & 4

U_m = 253Vrms

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

Headset Connector

U_o = 8.51V
I_o = 0.081A
P_o = 0.132W
C_i = 0.6µF
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 1µF 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.

16 Report Number

See 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

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
212-01-5000-001	5 of 7	003	03-12-24	Auteldac 5 Certification Label

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
212-01-5000-001	1 of 7	3	17/10/23	AUTELDAC 5 CERTIFICATION BLOCK DIAGRAM
212-01-5000-001	4 of 7	002	17-10-23	AUTELDAC 5 COMPONENT DETAILS GENERAL ARRANGEMENT
212-01-5000-801	1 of 1	001	17/10/23	AUTELDAC 5 EXTERNAL GA HEADSET CONNECTION
999-01-1158-000	1 to 4	17	17/10/23	Auteldac 5
212-01-5000-001	2	002	25-11-21	Auteldac 5 External General Arrangement
212-01-5000-001	3	001	19/10/17	Auteldac 5 Internal General Arrangement
212-01-5000-001	6	001	19/10/17	Auteldac 5 Enclosure Sealing Details
212-01-5000-001	7	001	19/10/17	Auteldac 5 External General Arrangement Side Entry Metallic Handset Cord
500-01-0650-001	1 & 2	001	19/10/17	Auteldac 5 Main PCB Physical Encapsulation & Potting Box Details
999-01-1157-000	1	6	05/08/13	Auteldac 5 Keypad
999-01-1157-000	2	4	12/11/13	Auteldac 5 Keypad Top Ident
999-01-1157-000	3	4	12/11/13	Auteldac 5 Keypad Top Artwork
999-01-1157-000	4	4	12/11/13	Auteldac 5 Keypad Bottom Artwork
999-01-1157-000	5	4	12/11/13	Auteldac 5 Keypad Bottom Ident
999-01-1158-000	5	3	12/11/13	Auteldac 5 main Board Top Ident
999-01-1158-000	6	3	12/11/13	Auteldac 5 main Board Top Artwork
999-01-1158-000	7	3	12/11/13	Auteldac 5 main Board Layer 2 Artwork
999-01-1158-000	8	3	12/11/13	Auteldac 5 main Board Layer 3 Artwork
999-01-1158-000	9	3	12/11/13	Auteldac 5 main Board Bottom Artwork
999-01-1158-000	10	3	12/11/13	Auteldac 5 main Board Top Resist
999-01-1158-000	11	3	12/11/13	Auteldac 5 main Board Bottom Resist

All drawings are common to BAS21UKEX0302 - Issue 2 and IECEx BAS 14.0165, and held with IECEx BAS 14.0165 Issue 7.

20 Certificate History

Certificate No.	Date	Comments
Baseefa14ATEX0362	16 January 2015	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012, EN 60079-7:2007, EN 60079-18:2009 & EN 60079-31:2014 is documented in GB/BAS/ExTR12.0282/00 for project 12/0130.
Baseefa14ATEX0362 Issue 1 (re-issued 11 November 2015)	14 July 2015	This issue of the certificate permits a revision of the routine testing requirements, updates the headset connector load parameters, updates the EN 60079-18:2009 frequency limits, incorporates previously issued primary & supplementary certificates into one certificate. The associated test and assessment is documented in GB/BAS/ExTR12.0282/01 & GB/BAS/ExTR15.0201/00 for project 15/0426.
Baseefa14ATEX0362 Issue 2	21 December 2017	This issue of the certificate permits changes to the sealing materials and the additional option of a side entry metal handset cord. The associated test and assessment is documented in report GB/BAS/ExTR15.0377/00. Project 14/0303.

Certificate No.	Date	Comments
Baseefa14ATEX0362 Issue 3	27 November 2018	This issue of the certificate permits changes to the sealing materials, a reduction in the minimum certification temperature from -20°C to -40°C, updates the entity parameters for the headset connector, and confirms compliance with EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-18:2015, EN 60079-11:2012 & EN 60079-31:2014. The associated test and assessment is documented in report GB/BAS/ExTR18.0014/00 for project 14/0303.
Baseefa14ATEX0362 Issue 4	13 August 2019	This issue of the certificate permits the addition of an alternative speaker insert. The associated test and assessment is documented in report GB/BAS/ExTR19.0208/00 for project 19/0283.
Baseefa14ATEX0362 Issue 5	6 December 2021	This issue of the certificate confirms the current design meets 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 and also permits a minor label update to incorporate additional certification marks. The test and assessment are recorded in Test Report GB/BAS/ExTR21.0217/00 and held with Project No. 21/0336.
Baseefa14ATEX0362 Issue 6	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. Test Report GB/BAS/ExTR23.0061/00. Project No. 22/0556
Baseefa14ATEX0362 Issue 7	2 January 2025	This issue of the certificate is to permit a change of company name and address. The associated test and assessment is documented in Test Report No. GB/SGS/ExTR24.0219/00 for project 24/0534.
For drawings applicable to each issue, see original of that issue.		

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