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: **Baseefa12ATEX0197 – Issue 2**

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: **Telephone Type A103**

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. Baseefa12ATEX0197 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:

Ex I M1 Ex ia I Ma

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

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Mikko Välimäki
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13 # Schedule

14 ## Certificate Number Baseefa12ATEX0197 – Issue 2

15 Description of Product

The Telephone Type A103 is an intrinsically safe telephone designed for use in mining applications. It comprises a non-metallic and a metallic frame incorporating a terminal chamber.

The non-metallic enclosure containing two printed circuit board (PCB) upon which are mounted electronic components. It is fitted with pushbuttons on one of the side walls, and a telephone handset with integral switch attached to the non-metallic enclosure via an integral cable.

The metallic terminal chamber contains two loudspeakers mounted in the side walls, an internal battery pack type BP004 and terminals for the connection of external circuits.

The relay contacts are suitable for use in a hazardous area when supplied via a suitable zener barrier or isolator, or for use in a safe area. The programming port is for manufacturing and service use only when the equipment is in a safe area.

TERMINAL PARAMETERS

Line Connections – Terminals 1 to 5

U_i = 27.3V

I_i = 500mA

P_i = 3.54W

C_i = 220nF

L_i = 0

U_o = 9.6V*

I_o = 0

P_o = 0

Note * - This is the maximum voltage from the internal battery supply that may charge up external capacitance via the series blocking diodes.

Relay Contacts – Terminals B1 & B2

U_i = 25V

I_i = 2.5A

P_i = 5.0W

C_i = 0

L_i = 0

U_o = 0

I_o = 0

P_o = 0

U_m = 253V*

Note * - Only to be applied while in a safe area.

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

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
022-01-0069-001	3 of 3	7	01.10.24	A103 General Arrangement Internal & Cert Label

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
022-01-0069-001	1 of 3	001	08/02/12	A103 Certification Block Diagram
022-01-0069-001	2 of 3	2	31.07.12	A103 General Arrangement External
500-01-0656-001	1	1	19-10-09	Potted: Transformer & Relay Module
500-01-0657-001	1	1	19-10-09	Potted: Prog Interface Module
501-01-0514-001	1 of 2	001	10.05.12	Enclosure A103 Mine Phone White or Light Blue
501-01-0514-001	2 of 2	002	31.07.12	Enclosure A103 Mine Phone White or Light Blue
501-20-0543-001	1	2	06Jun00	Bracket: Terminal I.S. Telephone
501-40-0396-001	1	002	04.07.12	Enclosure Gasket A103 Mine Phone (gland hole to terminal chamber seal)
999-01-1125-000	1	001	23/04/12	A103 Main Schematic Analogue
999-01-1125-000	2	001	23/04/12	A103 Main Schematic Uproc
999-01-1125-000	3	001	23/04/12	A103 Main PCB Top Artwork
999-01-1125-000	4	001	23/04/12	A103 Main PCB Layer Two
999-01-1125-000	5	001	23/04/12	A103 Main PCB Layer Three
999-01-1125-000	6	001	23/04/12	A103 Main PCB Bottom Artwork
999-01-1125-000	7	001	23/04/12	A103 Main PCB Ident Top
999-01-1126-000	1	001	16/08/10	A103 Keypad PCB Schematic
999-01-1126-000	2	001	16/08/10	A103 Keypad PCB Top Artwork
999-01-1126-000	3	001	16/08/10	A103 Keypad PCB Bottom Artwork
999-01-1126-000	4	001	16/08/10	A103 Keypad PCB Ident Top
999-01-1127-000	1	001	23/04/12	A103 Transformer & Relay PCB Schematic
999-01-1127-000	2	001	16/08/10	A103 Transformer & Relay PCB Top Artwork
999-01-1127-000	3	001	16/08/10	A103 Transformer & Relay PCB Bottom Artwork
999-01-1127-000	4	001	16/08/10	A103 Transformer & Relay PCB Ident Top & Bottom
999-01-1137-000	1	001	16/08/10	A103 Prog Interface PCB Schematic
999-01-1137-000	2	001	16/08/10	A103 Prog Interface PCB Top Artwork

Number	Sheet	Issue	Date	Description
999-01-1137-000	3	001	16/08/10	A103 Prog Interface PCB Bottom Artwork
999-01-1137-000	4	001	16/08/10	A103 Prog Interface PCB Ident Top

These drawings are common to BAS21UKEX0301 and held with Baseefa12ATEX0197 Issue 2.

20 Certificate History

Certificate No.	Date	Comments
Baseefa12ATEX0197	8 November 2012	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012 and EN 60079-11:2012 were documented in report. 12(C)0062/1
Baseefa12ATEX0197 Issue 1	22 June 2021	This issue of the certificate incorporates the previously issued primary certificate and this supplementary certificate into one certificate and confirms the current design meets the requirements of EN IEC 60079-0:2018. See report 21(C)0083.
Baseefa12ATEX0197 Issue 2	2 January 2025	This issue of the certificate is to permit a change of company name and address change. The associated test and assessment is documented in Test Report No. 24(C)0534 for project 24/0534.
For drawings applicable to each issue, see original of that issue.		

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S003 (EN ISO/IEC 17065)