

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: **BAS21UKEX0301 Issue 1**

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 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 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 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:

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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 BAS21UKEX0301 – Issue 1

15 Description of Product

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 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
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21 (1)	External effects
21 (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
022-01-0069-001	3 of 3	7	01-10-24	*A103 General Arrangement Internal & Cert Label

For all other drawings see Baseefa12ATEX0197 Issue 2

The drawings referenced above are common to Baseefa12ATEX0197.

20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0301 Issue 0	6 December 2021	Prime Certificate Report Number: 21(C)0268 Project Number: 21/0268 Original issue of the certificate
BAS21UKEX0301 Issue 1	2 January 2025	This certificate issue is to permit a change to the certificate holder's name and address. Report Number: 24(C)0534 Project Number: 24/0534

For drawings applicable to each issue, see original of that issue.