

1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa03ATEX0617**

4 Equipment or Protective System: **Auteldac 4**

5 Manufacturer: **Gai-Tronics Limited**

6 Address: **Burton Upon Trent, Staffordshire, DE13 0BZ**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd. Notified body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **03(C)0287**

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

EN 50014: 1997 + Amd 1 & 2 EN 50019: 2000 EN 50028: 1987 + Amd 1 EN 50020: 2002

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 2 G EEx e m ib IIC T5 (-20°C ≤ T_a ≤ 50°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. **0752**

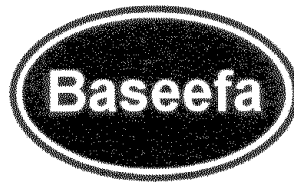
Project File No. **03/0287**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa03ATEX0617

15 Description of Equipment or Protective System

The Auteldac 4 is a rugged weatherproof telephone for use in explosive atmospheres. The handset may be supplied with either a curly cord or a stainless steel cord. The optional keypad may have 12, 15 or 18 buttons.

The telephone comprises three printed circuit boards (pcbs). The main pcb is located in the bottom of the enclosure and houses all of the active electronics. The keypad pcb is located in the enclosure cover and is linked to the main pcb via a ribbon cable. The headset pcb is also located in the enclosure cover and is wired to the keypad pcb. Most of the main pcb is encapsulated apart from the parts which the user needs to access to make mode selection and wiring terminals.

The external terminations are made via EEx e approved glands at EEx e approved terminal blocks mounted on the main pcb. 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.

Input Parameters

Telephone Connections Terminal TB1:

$$U_m = 250V$$

Rated Input Voltage = 70V DC plus 100V r.m.s. ring voltage

Rated Input Power = 15W

Loop Contact Terminal TB3:

$$U_m = 250V$$

Rated Input voltage = 250V

Rated Input current = 200mA

Ringer Contact Terminal TB4:

$$U_m = 250V$$

Rated Input voltage = 250V

Rated Input current = 5A

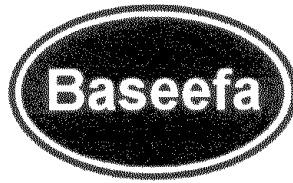
VARIATION 0.1

The Auteldac 4 housing may be fitted with an optional intrinsically safe socket, into which a headset is plugged. The headset is a Hear/speak system Type PTT/Ex-1 Viking or Type PTT/Ex-1 Mark 12 (certified on TUV03ATEX2124) coded Ex II 2 G EEx ib IIC T4. When this headset is used the Auteldac 4 is coded:

Ex II 2 G EEx e m ib IIC T4 (-20°C ≤ T_a ≤ 40°C).

16 Report Number

03(C)0287



17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
212-01-2000-000	1	6	20.10.03	Block Diagram
212-01-2000-000	2	1	9.10.03	External General Arrangement
212-01-2000-000	3	1	9.10.03	Internal General Arrangement
212-01-2000-000	4	1	9.10.03	Main PCB and Encapsulation Details
212-01-2000-000	5	1	16.10.03	Components
212-01-2000-000	6	1	6.10.03	Label
212-01-2000-000	7	1	5.10.03	Enclosure Sealing
999-01-1048-000	1	5	6.10.03	Main Board Speech Schematic
999-01-1048-000	2	5	6.10.03	Main Board Ringer Schematic
999-01-1048-000	3	3	6.10.03	Main Board Top Artwork
999-01-1048-000	4	3	6.10.03	Main Board Bottom Artwork
999-01-1048-000	5	3	6.10.03	Main Board Layer 2 Artwork
999-01-1048-000	6	3	6.10.03	Main Board Top Ident
999-01-1050-000	1	2	6.10.03	Headset Interface Schematic
999-01-1050-000	2	2	6.10.03	Headset Interface Top Artwork
999-01-1050-000	3	2	6.10.03	Headset Interface Bottom Artwork
999-01-1047-000	1	2	6.10.03	Keypad Schematic
999-01-1047-000	2	2	6.10.03	Keypad Top Artwork
999-01-1047-000	3	2	6.10.03	Keypad Bottom Artwork
999-01-1047-000	4	2	6.10.03	Keypad Top Ident