

## Gai-Tronics DAC Telephony Auteldac 4

### *ATEX Approved Hazardous Area Telephone*



- Ex II 2 G ATEX certified telephone
- CE (R&TTE Directive 1999/5/EC and ATEX Product Directive 94/9/EC)
- Fully compliant with I-CTR 37 / CTR 38
- BASEEFA certified
- Full keypad with 3 programmable memory buttons, and CB telephone variants
- Headset Option
- Integral ringer and secondary beacon / external sounder actuator
- Robust and weather resistant
- Industry standard robust handset c/w curly cord or armoured stainless steel
- Dual purpose design for wall or desk mounting, simple installation

The Auteldac 4 (A4) telephone has secured ATEX approval to provide a tough, weather resistant unit built to withstand arduous industrial atmospheres and environmental extremes.

Certified for safe operation in hazardous areas, the Auteldac 4 body is made from carbon loaded glass filled polyester to eliminate rust and corrosion. The handset has a choice of armoured stainless steel or curly cord.

The elimination of moving parts maintains a high level of reliability to industrial and weather resistant telephones.

Features such as 'electronic on-hook sensing' and 'electronic tone ringer' enable an enclosure protection up to IP66. Should the handset be left off-hook, the A4 will automatically revert to on-hook state after a period of 6-8 minutes (this option can be disabled.)

Auteldac 4 telephones come complete with an integral ringer with volume control and secondary beacon / external sounder actuator as standard. An inductive coupler is fitted to aid the hard of hearing.

For hands-free telephone use, the Auteldac 4 has the option of a handset.

#### **New South Wales:**

Tel: (02) 8851 5000  
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#### **Queensland:**

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Industrial Ex Rated Telephones

### Auteldac 4 Models

Options are full 18 button keypad, or zero for the CB (central battery) version.

#### KEYPAD DIALLERS:

Included in the 18 button version, are 3 memory buttons for fast one-touch dialling of pre-stored numbers or accessing low-cost call facilities:

M1-M3	Memory buttons
'R'	'Recall'
'LR'	'Last number redial'
'S'	'Store'

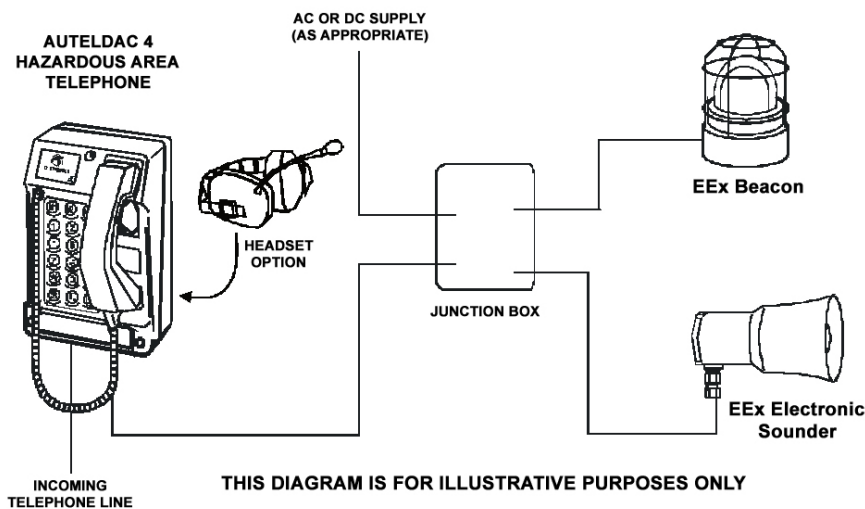
These models are configurable to be compatible with most PABX, PBX and PAX systems. Loop disconnect (LD) and Tone dialling (DTMF) systems are internally selectable, as are a choice of recall systems, Time Break Recall (TBR) and Earth Loop Recall (ELR).

#### CB (CENTRAL BATTERY) TELEPHONE:

This can be used as a 'hotline' or lift handset and wait for reply, where the exchange does the call routing/dialling.



### Connection Options



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A.B.N. 31 002 654 695



## Gai-Tronics DAC Telephony Auteldac 4

### Technical Specifications

**Enclosure Material:**

Carbon loaded glass-filled polyester  
(colour: black).

**Surface resistance:**

$<10^9$  ohms.

**Handset:**

Conductively coated polycarbonate handset  
with coiled cord or stainless steel spiral cord.

**Keypad:**

Weathersealed tactile digital keypad.

**Hookswitch:**

Electronic with no mechanical moving parts.

**Degree of protection:**

Up to IP66.

**Ringing:**

Shrill warble tone  $>90$ dBa @ 1 metre typical.

**Power Supply:**

Drawn from telephone line.

**Integral Ring Detector:**

Contact closure following the ringing cadence:

- Max. switching voltage: 240Vac rms.
- Max. switching current: 5A.

**Certified Operating Temperature:**

$-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ .

**Time Out:**

Enforces a fixed call maximum time limit to  
6-8 minutes from lifting of the handset.  
This facility can also be disabled.

**Dialling system:**

LD and DTMF (switchable).

**Dialling Data:**

- LD Impulse rate: 10 pps
- LD Mark/space ratio: 2:1 or 3:2
- Dialling tones meet international  
standard requirements - ITU Q23

**Recall Button:**

Internally switchable from Earth Loop Recall  
(600ms pulse) and Timed Break Recall  
98ms, 250ms or 604ms.

**Relative Humidity:**

Up to 95% (non-condensing).

**Weight:**

Approx. 3.1 kg.

### Approvals



ACA Compliant.

Telephone  
compliance

(Ex) II 2 G EEx e m ib IIC T5  
( $-20^{\circ}\text{C} \leq T_a \leq 50^{\circ}\text{C}$ )  
Baseefa03ATEX0617

Headset  
compliance

(Ex) II 2 G EEx ib IIC T4  
( $-20^{\circ}\text{C} \leq T_a \leq 40^{\circ}\text{C}$ )  
TUV03ATEX2124



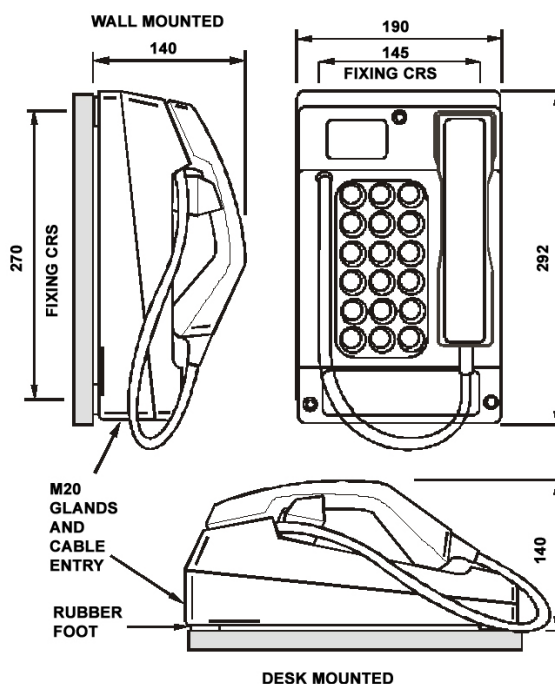
This mark indicates  
compliance with the  
following directives:

R&TTE Directive 1999/5/EC  
ATEX Product Directive 94/9/EC  
Tested to I-CTR37 & CTR38



The GAI-Tronics Limited  
Quality Management System  
has been approved by LRQA  
to ISO9001-2000.  
Certificate No. 861888

### Dimensions

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## Gai-Tronics DAC Telephony Auteldac 4



### IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION  
IEC Certification Scheme for Explosive Atmospheres  
for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BAS 05.0060** Issue No.: **0**

Status: **Current**

Date of Issue: **2005-09-23** Page 1 of 3

Applicant: **Gai-Tronics (A Division of Hubbell Ltd)**  
Brunel Drive  
Stretton Business Park  
Burton Upon Trent  
Staffordshire  
DE13 0BZ  
United Kingdom

Electrical Apparatus: **Auteldac 4**  
Optional accessory:

Type of Protection: **Increased Safety, Encapsulation, Intrinsic Safety**

Marking: **IECEX BAS 05.0060**  
**Ex e mb ib IIC T5 (-20°C ≤ Ta ≤ +50°C)**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:  
(for printed version)



Date:

27-9-05

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Baseefa (2001) Ltd.**

Rockhead Business Park  
Staden Lane  
Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom



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Industrial Ex Rated Telephones



## IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0060**  
Date of Issue: **2005-09-23** Issue No.: **0**  
Page **2** of **3**

Manufacturer: **Gai-Tronics (A Division of Hubbell Ltd)**  
Brunel Drive  
Stretton Business Park  
Burton Upon Trent  
Staffordshire  
DE13 0BZ  
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2000</b> Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 1999</b> Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
<b>IEC 60079-18 : 2004</b> Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
<b>IEC 60079-7 : 2001</b> Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

IECEX ATR:  
**UK/BAS/05/0296**

File Reference:  
**05/0296**

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## IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0060**  
Date of Issue: **2005-09-23** Issue No.: **0**  
Page **3** of **3**

### Schedule

**EQUIPMENT:**

*Equipment and systems covered by this certificate are as follows:*

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

The apparatus comprises up to three printed circuit boards (PCBs). The main PCB is located in the bottom of the enclosure and houses all 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 located in the enclosure cover and is wired to the keypad PCB. This provides an external connection for a certified intrinsically safe headset to be connected. Most of the main PCB is encapsulated apart from the wiring and mode selection 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 (Normally Open Contacts which close in sympathy with cadence), and opto-isolated loop contacts (Normally Open contact which closes whilst phone is off hook). Gland holes are provided for cable entry and an earth stud may be used to ground.

See Annex for Electrical parameters.

**CONDITIONS OF CERTIFICATION: NO**

## Gai-Tronics DAC Telephony Auteldac 4

### Baseefa (2001) Ltd.

Rockhead Business Park  
Staden lane, Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom



Baseefa

ANNEX to IECEx BAS 05.0060

Issue No. 0

Date:2005/09/23

#### Auteldac 4 Electrical Parameters

##### Input Parameters

Telephone Connections Terminal TB1 & TB2:

$$U_m = 250V$$

Rated Input Voltage = 70V d.c. 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

##### External Headset Socket Parameters

A certified intrinsically safe headset may be connected to versions of the Auteldac 4 fitted with an external headset socket. The output parameters of the headset socket are:-

$$\begin{aligned}U_o &= 5.6V \\I_o &= 50mA \\P_o &= 164mW \\C_s &= 0 \\L_s &= 0\end{aligned}$$

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