



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

Certificate No.: IECEx BAS 10.0089U issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2010-08-31** Page 1 of 3

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

Electrical Apparatus: **Battery Unit Type BP004**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia I Ma**


Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)



9-9-10

Date:

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.

Certificate issued by:

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





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Manufacturer: **Gai-Tronics (A Division of Hubbell Limited)**
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 manufacturer'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:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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

Test Report:

GB/BAS/ExTR10.0188/00
GB/BAS/ExTR10.0189/00

Quality Assessment Report:

GB/BAS/QAR06.0039/03



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Battery Unit Type BP004 is a sealed Ni-MH Battery Pack designed for use with mining communication equipment as a replacement battery for existing systems or as the current battery pack for new communications equipment. It consists of 6 cells connected in series with internal current limiting resistors to produce an intrinsically safe supply.

The terminal parameters for the BP004 are:

$U_0 = 9.6V$
 $I_0 = 1.53A$
 $P_0 = 2.4W$
 $C_i = 0$
 $L_i = 0$
 $C_o = 500\mu F$
 $L_o = 0.35mH$

The scheduled drawings associated with this component are listed below:

Number	Sheet	Issue	Date	Description
052-01-0030	1	2	11 Aug 10	Battery Unit Type BP004
052-01-0030	2	2	11 Aug 10	Battery Unit Type BP004 Notes

Schedule of Limitations

1. The maximum temperature rise of an individual battery pack cell in a +40°C ambient is +175°C under fault conditions.
2. The Battery Unit Type BP004 must be mounted within an IP54 rated enclosure.

CONDITIONS OF CERTIFICATION: NO