



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx ITA 07.0014X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 2 [Issue 1 \(2013-05-09\)](#)  
[Issue 0 \(2008-05-27\)](#)  
Date of Issue: 2020-08-28  
Applicant: **Benkol Pty Ltd trading as Bintech Systems**  
5/58 Mahoneys Road  
Thomastown VIC 3074  
**Australia**  
Equipment: **BI-4000H-IS-x-y-B**  
Optional accessory:  
Type of Protection: **Intrinsic safety 'i'**  
Marking: Ex ia IIB T4 (Tamb -20C to +60C)

Approved for issue on behalf of the IECEx  
Certification Body:

**Ajay Maira**

Position:

**Certification Authority**

Signature:  
(for printed version)

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Ex Testing and Certification Pty Ltd**  
1/30 Kennington Drive  
Tomago NSW 2322  
Australia





# IECEx Certificate of Conformity

Certificate No.: **IECEx ITA 07.0014X**

Page 2 of 4

Date of issue: 2020-08-28

Issue No: 2

Manufacturer: **Benkol Pty Ltd trading as Bintech Systems**  
5/58 Mahoneys Road  
Thomastown VIC 3074  
**Australia**

Additional  
manufacturing  
locations:

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 equipment 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** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition:4.0

**IEC 60079-11:2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:5

This Certificate **does not** indicate compliance with 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:

[AU/ITA/ExTR08.0012/00](#)

Quality Assessment Report:

[AU/ITA/QAR08.0003/10](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx ITA 07.0014X**

Page 3 of 4

Date of issue: 2020-08-28

Issue No: 2

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Bintech High Level Alarm Model BI-4000H-IS-x-y-B comprises a double sided printed wiring board upon which are mounted electronic components included four specified AAA cells and plugs and sockets. A piezo electric audible warning device is mounted in the wall of the enclosure. The printed wiring board and components are all housed in an aluminium enclosure fitted with a non-metallic facia with membrane push buttons and windows for three Light Emitting Diodes. The apparatus may also be fitted with an optional antenna. External connections to no voltage contacts are made via integral plugs and sockets mounted on the printed wiring board. The apparatus is designed to provide an audible and visual warning of the level of process fluid in a vessel. The apparatus is designated a Bintech High Level Alarm Model BI-4000H-IS-x-y-B.

Where

x can be either **A** for Attached switched contacts or **R** for remote switched contacts and

y can be either **0** for no radio transmitter or **T** for radio transmitter fitted.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

Refer to annex for details



# IECEx Certificate of Conformity

Certificate No.: **IECEx ITA 07.0014X**

Page 4 of 4

Date of issue: 2020-08-28

Issue No: 2

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Refer to Annex for details.

**Annex:**

[Certificate Annex - IECEx ITA 07.0014X-2\\_1.pdf](#)

# IECEX Certificate of Conformity



## Annexe



Annexe for Certificate No.:

IECEX ITA 07.0014X

Issue No.:

2

### Description:

As provided in the main body of the certificate.

### Specific Conditions of Use pertaining to Issue 0 of this Certificate:

1. The following output parameters are to be taken into account in the installation

J1, J2, J3, J4, J5, RF1 (Combined)		
$U_o =$	6.6	V
$I_o =$	124	mA
$P_o =$	170	mW
$C_o =$	400	$\mu$ F
$L_o =$	9	mH
$C_i =$	25	$\mu$ F
$L_i =$	4.4	$\mu$ H

Note: The above load parameters apply where:

- a. The external circuit contains no combined lumped inductance  $L_i$  and capacitance  $C_i$  greater than 1% of the above values or
  - b. The inductance and capacitance are distributed as in a cable or
  - c. The external circuit contains only lumped inductance or only lumped capacitance in combination with a cable. In all other situations, e.g. the external circuit contains combined lumped inductance and capacitance up to 50% of each of the inductance and capacitance values is allowed.
2. Use only DURACELL AAA LR03 MN2400 or ENERGIZER AAA LR03 AM2 batteries. Batteries shall be replaced in accordance with the manufacturer's instructions and are not to be replaced when an explosive atmosphere may be present.
  3. Due to the potential electrostatic risk of the plastic membrane and the light metal enclosure the apparatus must NOT be located in a Zone 0.

# IECEX Certificate of Conformity



## Annexe



Annexe for Certificate No.:

IECEX ITA 07.0014X

Issue No.:

2

### Drawing list pertaining to Issue 0 of this Certificate:

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
BI-4000H ENCLOSURE ASSEMBLY	Ex150	1 of 1	1	2008-05-05
BI-4000H CONTROL BOARD ASSEMBLY	Ex151	1 of 1	1	2008-05-05
BI-4000H HOUSING BOTTOM HOLES	Ex157	1 of 1	1	2008-05-05
BI-4000H CERTIFICATION LABEL	Ex164	1 of 1	1	2008-05-05
BI-4000H MEMBRANE KEYPAD	Ex165	1 of 1	1	2008-05-08
BI-4000H PCB Top Overlay	Ex167	1 of 1	1	2008-04-28
BI-4000H PCB Bottom Overlay	Ex168	1 of 1	1	2008-04-29
BI-4000H PCB Bottom Layer	Ex169	1 of 1	1	2008-04-29
BI-4000H PCB Top Layer	Ex170	1 of 1	1	2008-04-29
BI-4000H PCB BILL OF MATERIALS	Ex171	1 of 1	1	2008-05-05
BI-4000H SCHEMATIC CIRCUIT	Ex172	1 of 1	1	2008-04-29

### Variations permitted by Issue 1 of this certificate:

- Change of Name of Certificate Holder and Manufacturer
- Drawings updated to reflect the new company details

### Specific Conditions of Use pertaining to Issue 1 of this certificate:

There have been no changes to the conditions of use.

# IECEX Certificate of Conformity



## Annexe



Annexe for Certificate No.:

IECEX ITA 07.0014X

Issue No.:

2

### Drawings Associated with the Issue 1 of this Certificate:

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
BI-4000H ENCLOSURE ASSEMBLY	Ex150	1 of 1	2	2013-04-08
BI-4000H CONTROL BOARD ASSEMBLY	Ex151	1 of 1	2	2013-04-08
BI-4000H HOUSING BOTTOM HOLES	Ex157	1 of 1	2	2013-04-08
BI-4000H CERTIFICATION LABEL	Ex164	1 of 1	2	2013-04-08
BI-4000H MEMBRANE KEYPAD	Ex165	1 of 1	2	2013-04-08
BI-4000H PCB Top Overlay	Ex167	1 of 1	2	2013-03-14
BI-4000H PCB Bottom Overlay	Ex168	1 of 1	2	2013-03-14
BI-4000H PCB Bottom Layer	Ex169	1 of 1	2	2013-03-14
BI-4000H PCB Top Layer	Ex170	1 of 1	2	2013-03-14
BI-4000H PCB BILL OF MATERIALS	Ex171	1 of 1	2	2013-03-14
BI-4000H SCHEMATIC CIRCUIT	Ex172	1 of 1	2	2013-03-14

### Variations permitted by Issue 2 of this certificate:

- Revised certificate holder address to the following:  
5/58 Mahoneys Road  
Thomastown VIC 3074  
Australia
- Updated the manufacturer details to mirror the certificate holder
- Updated QAR number to the most recent issue

### Specific Conditions of Use pertaining to Issue 2 of this certificate:

There have been no changes to the conditions of use.

### Drawings Associated with the Issue 2 of this Certificate:

There are no drawings associated with this issue of the certificate.