

# Certificate of Conformity

## Ex EQUIPMENT

Certificate No.: **ANZEx 09.4087X**      Current Issue: 2      Date of Issue: 2020-08-28

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

**Equipment:**                Bintech type BI – 2000 Level Sensor

**Type of Explosion Protection:**      Ex s d

**Explosion Protection Marking:**      Ex s d IIB T6 IP66 Zone 1 Head, Zone 0 Probe

*This certificate is granted subject to the conditions as set out in  
Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1***

Signed for and on behalf of issuing body



Name & Position

Ajay Maira - Certification Authority

*This certificate is not transferable and remains the property of the issuing body.*

*The status of this certificate can be confirmed through the database located at [www.anzex.com.au](http://www.anzex.com.au)*

Certificate issued by:

Ex Testing & Certification Pty Ltd  
1/30 Kennington Drive, Tomago NSW 2322, Australia

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

**Additional Manufacturing Location(s):** None

### 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:*

<b>AS 2380.1 – 1989</b>	Electrical equipment for explosive atmospheres – Explosion protection techniques Part 1: General requirements
<b>AS 1826 – 1983</b>	Electrical equipment for explosive atmospheres – Special protection Type of protection s
<b>AS 2380.2 – 1991</b>	Electrical equipment for explosive atmospheres – Explosion protection techniques Part 2: Flameproof enclosure 'd'

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

### TEST & ASSESSMENT REPORTS:

*The equipment listed has successfully met the examination and test requirements as recorded in:*

Test Report Nos. & Issuing Bodies associated with all issues of the certificate: TR 2967 and TR 3907 (ITACS)

Quality Assessment Report No. & Issuing Body: AU/ITA/QAR08.0003/10 (ExTC)

File Reference: 20051

(Certificate format based on template QMA-HAE-08-720 dated 2020-02-10)

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### Schedule

#### Equipment Description:

The Bintech type Series BI-2000 is designed to provide an electrical output signal proportional to the level of a fluid in a tank.

The apparatus comprises of a previously certified Ex d transmitter head assembly for connection to the tank wall and a hermetically sealed stainless steel glide tube housing reed switches.

Electrical connections are made via integral terminals mounted in the flameproof head.

Models and variants covered by this certificate are identities as follows:

Model: BI-2000-AA-BB-CC-DD-EE-FFF

Where: AA indicates the mounting position

BB indicates enclosure head options as follows:

10 = Ex d to ANZEx 01.4076X (up to +40C Ambient)

20 = Ex d to ANZEx 07.3027 (up to +60C Ambient)

CC indicates the float material

DD indicates the contact separation in mm

EE indicates Transmitter options

FFF indicates length of the sensor probe in mm

#### Electrical Ratings/Parameters

N/A

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**Specific Conditions of Use:**

1. The cable entries/cable glands and wiring to the apparatus are made via suitably certified Ex d glands and fittings having a minimum ingress protection rating of IP66 and that the installation is carried out in accordance with current flameproof installation requirements.
2. The probe tip may be mounted in a Zone 0, but the flameproof transmitter head must not be mounted in a Zone 0. The head may be located in a Zone 1, Zone 2 or a non-hazardous area. The apparatus must be installed such that the flange forms a barrier between the probe in a Zone 0 and the flameproof head in accordance with the manufacturer's instructions.
3. If conduit is to be used to make connection to the apparatus a suitable stopping box shall be attached to the wall of the enclosure.
4. The apparatus is to be mounted in an ambient temperature not exceeding the marked ambient, ie 40°C or 60°C and at normal atmospheric pressure. However the probe tip may be mounted in higher temperature and pressures, subject to approval by the manufacturer.
5. To attain double insulation a SELV safety isolating transformer is to be used to supply power to the apparatus.

**Conditions of Certification:**

1. That the routine high voltage test of Clause 6.2 of AS 2380.1-1989 be applied
2. That Bintech use Ex d enclosure heads that are covered by Certificate ANZEx 01.4076X or ANZEx 07.3027 and to check that these certificates are current.
3. The maximum power that can be dissipated into the model must not exceed 3 watts

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### History of Issues and Variations

includes the current issue

#### Issue 0 dated 2010-02-15

Manufacturer's Documents associated with Issue 0:

Document Title	Document Number	Pages / Sheets	Revision	Date
BINTEL BI-2000 SERIES SENSOR EXTENSION CERTIFICATION DRAWING	58	1 of 1	A	2004-08-30
BINTEL BI-2000 SERIES ¾ NPT M/F SEAL FITTING CERTIFICATION DRAWING	82	1 of 1	A	2004-08-30
BINTEL BI-2000 SERIES GENERAL ASSEMBLY – CERTIFICATION DRAWING	91	1 of 1	C	2009-12-21
BINTEL BI-2000 SERIES TRANSITION CONNECTOR CERTIFICATION DRAWING	94	1 of 1	A	2004-08-30
BINTEL BI-2000 SERIES LABEL, CERTIFICATION. CERTIFICATION DRAWING	106	1 of 1	D	2009-12-21
BINTEL BI-2000 SERIES REED CHAIN ASSEMBLY CERTIFICATION DRAWING	107	1 of 1	A	2004-08-30
BINTEL BI-2000 SERIES BENNEY HEAD MARKING CERTIFICATION DRAWING	109	1 of 1	A	2004-11-12

#### Issue 1 dated 2013-05-15

Variations Permitted by Issue 1

- Change of name of certificate holder and manufacturer
- Drawings updated to reflect new company details

Variations to the Specific Conditions of Use associated with Issue 1:

None

Manufacturer's Documents associated with Issue 1:

Document Title	Document Number	Pages / Sheets	Revision	Date
BINTEL BI-2000 SERIES SENSOR EXTENSION CERTIFICATION DRAWING	58	1 of 1	B	2013-01-24
BINTEL BI-2000 SERIES ¾ NPT M/F SEAL FITTING CERTIFICATION DRAWING	82	1 of 1	B	2013-01-24

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BINTEL BI-2000 SERIES GENERAL ASSEMBLY – CERTIFICATION DRAWING	91	1 of 1	D	2013-01-23
BINTEL BI-2000 SERIES TRANSITION CONNECTOR CERTIFICATION DRAWING	94	1 of 1	B	2013-01-24
BINTEL BI-2000 SERIES LABEL, CERTIFICATION. CERTIFICATION DRAWING	106	1 of 1	F	2013-01-24
BINTEL BI-2000 SERIES REED CHAIN ASSEMBLY CERTIFICATION DRAWING	107	1 of 1	B	2013-01-24
BINTEL BI-2000 SERIES BENNEY HEAD MARKING CERTIFICATION DRAWING	109	1 of 1	C	2013-01-24

### Issue 2 dated 2020-08-28

#### *Variations Permitted by Issue 2*

- 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
- Certificate updated to the most recent template

#### *Variations to the Specific Conditions of Use associated with Issue 2:*

None

#### *Manufacturer's Documents associated with Issue 2:*

No drawings are associated with this issue of the certificate.