

Certificate of Conformity

Ex EQUIPMENT

Certificate No.:	ANZEx 09.4088X	Current Issue:	2	Date of Issue:	2020-08-28
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Applicant: **Benkol Pty Ltd trading as Bintech Systems**
5/58 Mahoneys Road
Thomastown VIC 3074
Australia

Equipment: Bintech type AVBUVK and MG-ABHUVK-TLEH L1380
Level Probe and Sensor Head

Type of Explosion Protection: Ex d

Explosion Protection Marking: Ex d IIC T6 IP66 *
*Ambient -20°C to +60°C applicable to model MG-ABHUVK-TLEH L1380 only

*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

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:

AS 2380.1 - 1989 Electrical equipment for explosive atmospheres – Explosion protection techniques
Part 1: General requirements

AS 2380.2 - 1991 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: ITACS 2749 & TR 3790

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

File Reference: 20051

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

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Schedule

Equipment Description:

This certificate covers the **Bintech** type **AVBUVK** and **MG-ABHUVK-Txx – Lyy** level probe and sensor head comprises of a terminal box attached at a right angle to a length of sensor tube via a $\frac{3}{4}$ " NPT threaded joint.

The sensor tube is constructed of stainless steel box section with stainless steel end caps welded into place. The tube contains a length of printed wiring board (PWB) mounted with regularly spaced reed switches and surface mount resistors. The reed switches can be mounted at several different intervals depending on the accuracy required. The tube length is also variable depending on the application.

An extension tube is welded on to the 25 mm wide face of the sensor tube at right angles approx. 53 mm from the lower end of the apparatus. This extension tube incorporates the male NPT thread and the signal wires exit the sensor tube through it. The extension tube is then filled to the top with Herberts type E 8702 Z casting compound.

The terminal box comprises of a Benney type MTHBE00580 which contains a 4 – 20 mA 2 wire transmitter. Active and neutral supply to the unit enters via a certified M20 Ex d cable gland, suitable for the environment and application (to be provided by the installer). If it is necessary to maintain the same Ex d IIC IP66 rating as the terminal enclosure, cable glands certified to the same ratings or better are required.

This level probe utilizes sensor head enclosures certified as follows:

- ANZEx 01.4076X (Benney Transfer Technologies Pty Ltd Model MTHBE00580 Ex d IIC T6 Tamb -20°C to +40°C)
- ANZEx 07.3027 (Moore Industries Model LH2XSA & BHabcA Ex d IIC T6 Tamb -20°C to +60°C)

Model MG-ABHUVK-Txx-Lyy variants for Txx and Lyy are as follows:

- Txx – Electronics modules known as TLEH, TS, TE, TSH, TEH, TA, TD and TDF
- Lyy – Length in mm

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Specific Conditions of Use:

1. The Bintech level sensor is to be installed in accordance with the manufacture's instruction which includes the use of a separately certified Ex d cable gland suitable for the application and environment within which the level probe is to be used.
2. 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.
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. 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.

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History of Issues and Variations

includes the current issue

Issue 0 dated 2010-03-11

Manufacturer's Documents associated with Issue 0:

Document Title	Document Number	Pages / Sheets	Revision	Date
BI-PASS Ex d Level SENSOR LABELING DETAILS	92	-	6	2009-12-14
MOORE HEAD HOUSING LABEL DETAILS CERTIFICATION DRAWING	143	-	E	2010-01-14
KSR NIVEAUMESSWERTGEBER KSR MAGNETIC LEVEL TRANSMITTER MG_AVB.VK.._T.._L.../M.../14_SAA MG_ABH.VK.._TLEH_L.../M.../14_SAA	1001-101585	-	2	2009-12-17
ABSCHLUSSTEIL EEx d MESSWERTGEB FUER ROHR Ø14	HE-100815	-	Original	2005-06-27
NPT ¼" GEHAEUSEAUFNAHME EExd	HE-100818	-	Original	2005-06-28
Platine Für Rechteckrohr-Meßwertgeber Variables Raster (5.10.15.20)	P_87501_5	-	5	2001-11-10
Platine Für Rundrohr Ø 12 x 1 mm Raster 20 mm	P_87502_2	-	2	2000-10-19

Issue 1 dated 2013-05-15

Variations Permitted by Issue 1

- Change of Name: Applicant and Manufacturer
- Drawings update to reflect the changes

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
BI-PASS Ex d LEVEL SENSOR LABELING DETAILS	92	-	7	2013-02-27
MOORE HEAD HOUSING LABEL DETAILS CERTIFICATION DRAWING	143	-	F	2013-02-27

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KSR NIVEAUMESSWERTGEBER KSR MAGNETIC LEVEL TRANSMITTER MG_AVB.VK...T...L.../M.../14_ANZEx MG_ABH.VK...TLEH_L.../M.../14_ANZEx	1001-101585	-	3	2010-05-20
ABSCHLUSSTEIL EEx d MESSWERTGEB FUER ROHR Ø14	HE-100815	-	Original	2005-06-27
NPT ¾" GEHAEUSEAUFNAHME EExd	HE-100818	-	Original	2005-06-28
Platine Für Rechteckrohr-Meßwertgeber Variables Raster (5.10.15.20)	P_87501_5	-	5	2001-11-10
Platine Für Rundrohr Ø 12 x 1 mm Raster 20 mm	P_87502_2	-	2	2000-10-09

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.