



# 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 TSA 13.0025X Issue No: 1 Certificate history:  
Status: **Current** Issue No. 1 (2017-05-11)  
Date of Issue: **2017-05-11** Issue No. 0 (2013-12-20)  
Applicant: **Austdac Pty Ltd** Page 1 of 5  
Unit 1, 42 Carrington Road  
Castle Hill NSW 2154  
**Australia**  
Equipment: **Voltage Reference Type AFVG42**  
*Optional accessory:*  
Type of Protection: **Intrinsic safety 'ia'**  
Marking:  
Austdac Pty Ltd  
Voltage Reference Type AFVG42  
Ex ia I Ma  
IECEX TSA 13.0025X

Approved for issue on behalf of the IECEx  
Certification Body:

Debbie Wouters

Position:

Acting Quality & Certification Manager

Signature:  
(for printed version)

Date:

11 MAY 2017

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:

**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753  
Australia





# IECEX Certificate of Conformity

Certificate No: IECEX TSA 13.0025X Issue No: 1  
Date of Issue: 2017-05-11 Page 2 of 5  
Manufacturer: **Austdac Pty Ltd**  
Unit 1, 42 Carrington Road  
Castle Hill NSW 2154  
**Australia**

Additional Manufacturing location(s):

**Dongguan Hubbell Electrical Products Company Limited (DGHAL)**  
Xincheng Industrial Zone  
Hengli Town, Donggaun City  
523460, Guangdong  
China

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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*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:

AU/TSA/ExTR13.0054/00

Quality Assessment Report:

AU/ITA/QAR15.0002/01 AU/ITA/QAR06.0001/11



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## Schedule

### EQUIPMENT:

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

The Voltage Reference Type AFVG42 is designed to restrict the transfer of energy from a suitable certified intrinsically safe power source to a load located in a hazardous area. The apparatus comprises electronic components mounted on a single printed circuit board housed in a plastic enclosure fitted with screw terminals for the connection of external circuits.

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

Please refer to Annexe of the certificate.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1:

1. Change of both Applicant address and Manufacturer address from  
"1 / 4 Packard Avenue, Castle Hill, NSW 2154, Australia"

To

"Unit 1, 42 Carrington Road, Castle Hill, NSW 2154, Australia"

2. Adding another manufacturing address

Dongguan Hubbell Electrical Products Company Limited (DGHAL)  
Xincheng Industrial Zone  
Hengli Town, Donggaun City  
523460, Guangdong, China



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Certificate No: IECEX TSA 13.0025X

Issue No: 1

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**Additional Information:**

None

**Annex:**

[Annexe\\_IECEX TSA 13 0025X-1.pdf](#)



# IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 13.0025X	Issue No.:	1
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### Drawing list pertaining to Issue 0 of this Certificate:

Document No.	Sheet s	Document Title	Issue	Date (yyyy/mm/dd)
63-005-03	1	Type AFVG42 Voltage Reference Schematic Diagram	02	2001-10-08
63-006-21	5	Type AFVG42 Voltage Reference PCB0103A Artwork Details	01	2001-01-05
63-007-14	2	Type AFVG42 Voltage Reference Bill of Materials	02	2008-01-24
63-008-07	1	Type AFVG42 Voltage Reference Component Loading Diagram	01	2001-01-05
63-009-04	1	Type AFVG42 Voltage Reference Assembly Diagram	02	2001-10-08
63-010-13	1	Voltage Reference Type AFVG42 Label Details	06	2013-11-20

### Conditions of Certification pertaining to Issue 0 of this Certificate:

1. It is a condition of safe use that the apparatus is enclosed in a suitable enclosure that provides an Ingress Protection rating not less than IP55.
2. It is a condition of safe use that the following parameters shall be taken into account during installation:

	Terminals 1 & 2
Maximum Input Voltage $U_i$	16.5 V
Maximum Input Current $I_i$	2.37 A
Maximum Internal Capacitance $C_i$	0 $\mu$ F
Maximum Internal Inductance $L_i$	0 mH

	Terminals 3 & 14
Maximum Output Voltage $U_o$	5 V
Maximum Output Current $I_o$	13.5 mA
Maximum Output Power $P_o$	16.84 mW
Maximum External Capacitance $C_o$	27 $\mu$ F
Maximum External Inductance $L_o$	100 $\mu$ H
Maximum L/R	27.72 mH/ $\Omega$

Certificate issued by:

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<b>Annexe for Certificate No.:</b>	<b>IECEX TSA 13.0025X</b>	<b>Issue No.:</b>	<b>1</b>
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## Variation permitted by Issue 1:

1. Change of both Applicant address and Manufacturer address from  
    "1 / 4 Packard Avenue, Castle Hill, NSW 2154, Australia"  
    To  
    "Unit 1, 42 Carrington Road, Castle Hill, NSW 2154, Australia"
2. Adding another manufacturing address  
  
    Dongguan Hubbell Electrical Products Company Limited (DGHAL)  
    Xincheng Industrial Zone  
    Hengli Town, Donggaun City  
    523460, Guangdong, China

## Conditions of Certification pertaining to Issue 1 of this Certificate:

No changes. The previous conditions still apply.

Certificate issued by:

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