



# 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 SIM 15.0005X Issue No: 0 Certificate history:  
Issue No. 0 (2015-07-27)

Status: **Current** Page 1 of 4

Date of Issue: **2015-07-27**

Applicant: **AZCO Holdings LTD**  
28 Hobill Avenue  
MANUKAU CITY  
AUCKLAND 2104  
**New Zealand**

Electrical Apparatus: **Temperature Probe Enclosure**  
*Optional accessory:*

Type of Protection: **Ex t**

Marking: Ex ta/tb IIIC T128 °C... T180 °C Da/Db IP66/67

Approved for issue on behalf of the IECEx  
Certification Body:

Geoffrey Barnier

Position:

Principal Engineer - Certification

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Safety in Mines Testing and Research Station (Simtars)**  
2 Robert Smith Street  
REDBANK QLD 4301  
Australia





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Date of Issue: 2015-07-27 Page 2 of 4

Manufacturer: **AZCO Holdings LTD**  
28 Hobill Avenue  
MANUKAU CITY  
AUCKLAND 2104  
**New Zealand**

Additional 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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-31 : 2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

*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/SIM/ExTR15.0003/00](#)

Quality Assessment Report:

[AU/SIM/QAR15.0001/00](#)



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## Schedule

### EQUIPMENT:

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

The AZCO temperature probe is of welded stainless steel construction and consists of a screw on cover and body. The cover is secured to the body when not screwed on using a nylon retainer. The body consists of a main housing and probe tube which are welded to form a single assembly. The housing is available in two options; Option 1 is specified as a standard housing which is short in length and used to house the sensor terminal block only. Option 2 is specified as an Extended housing and is longer in length and used to house either a sensor terminal block or temperature transmitter. The RTD/thermocouple sensors are fitted within the probe tube of variable length from 50 mm to 500 mm depending on client requirements. Electrical access is via separately certified cable glands fitted to an M16 threaded entry within the side wall of the housing.

Refer Annex for the models numbers identified by part number descriptor.

### CONDITIONS OF CERTIFICATION: YES as shown below:

The assigned surface temperature of T128 °C applies to the housing/stem exposed to the external ambient atmosphere when fitted to a process tank/pipe with a maximum internal process tank temperature of 180 °C. The maximum surface temperature of the probe tube exposed to the zone 20 internal process atmosphere is directly proportional to the maximum process temp of 180 °C.

Measures are to be taken when installing the temperature probe to insulate the housing from radiated heat from the process tank/pipe for process temperature above 125 °C.



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**Additional information:**

All supply voltages are to be supplied from a safety extra-low voltage supply.

Cable gland to be separately certified Ex t gland fitted with gland seal at entry.

**Annex:**

[IECEx SIM 15.0005X-0 Annex.pdf](#)