Australian/New Zealand
Certification Scheme for
EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT
ANZEx Scheme

Certificate of Conformity

Certificate No.: **ANZEx 11.3015X** Issue No.: **0** Date of Issue: **2011-12-12**

Applicant: Trimec Industries Pty. Ltd.
1/16 Atkinson Road
Taren Point NSW 2229
Australia

Electrical Apparatus: MP, MG, OM, TG and EX50 Series of Enclosures

Type of Protection: Ex d

Marking Code: Trimec Industries
Type MP or MG or OM or TG or EX50
S/No. ___
Ex d I Mb
Ex d IIB T6 (-20°C ≤ Ta ≤ 70°C)
Ex d IIB T4 (-20°C ≤ Ta ≤ 120°C)
ANZEx 11.3015X

Manufacturer: Trimec Industries Pty. Ltd.
1/16 Atkinson Road
Taren Point NSW 2229
Australia

Manufacturing Location(s): As above

*The EPEE certification database located at **http://www.anzex.com.au** shows the validity of this Certificate.*

Test Safe AUSTRALIA

Certificate issued by:

TestSafe Australia
919 Londonderry Road, Londonderry NSW 2753
Australia
Phone: +61 2 4724 4900 Fax: +61 2 4724 4999
http://www.testsafe.com.au

JAS-ANZ

www.jas-anz.com.au/register

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*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1:2008**.*

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:

AS/NZS 60079.0:2005 Electrical apparatus for explosive gas atmospheres – Part 0: General requirements
AS/NZS 60079.1:2005 Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosure 'd'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standard(s) listed above.*

ASSESSMENT & TEST REPORTS:

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

Test Report No. and Issuing Body: **GB/SIR/ExTR07.0017/00; GB/SIR/ExTR08.0127/00; GB/SIR/ExTR10.0210/00; GB/SIR/ExTR10.0310/01**

Quality Assessment Report No. and Issuing Body: **AU/TSA/QAR06.0006/01; AU/TSA/QAR06.0006/02; AU/TSA/QAR06.0006/03**

File Reference: **2011/017910**

Signed for and on behalf of issuing body

12 December 2011

Date of Issue

Quality & Certification Manager

Position

Australian/New Zealand

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Schedule

EQUIPMENT:

The MP, MG and OM Series of Enclosures are intended for use as part of a pulse flowmeter and consists a cover and number of different sized enclosures. The enclosure can be made of either aluminium or stainless steel and has two separate chambers. The lower chamber is non-flameproof and is attached to a suitable non-certified manifold. The upper flameproof chamber contains a printed circuit board and connection terminals.

The MP and MG Series Enclosures comprise a flameproof cover which forms a cylindrical joint with the body and provides a threaded entry for external connection with either M20 or ½" NPT threads. The body houses electronic equipment and is completely sealed from the process fluid.

The OM Series Enclosures comprises a blank flameproof cover, which forms a cylindrical joint with the body. A separate entrance provides a threaded entry for external connection with either M20 or ½" NPT threads. Again the body houses electronic equipment and is completely sealed from the process fluid.

Model	**Material**
AIM002, AIM004, AIM006, AIM008, AIM015, AIM025	Aluminium or Stainless Steel
EX50	Aluminium or Stainless Steel
MG002, MG004, MG006, MG008, MG015, MG025, MG040, MG050, MG080, MG080E, MG100	Aluminium or Stainless Steel
MG002H, MG004H, MG006H, MG008H, MG015H, MG025H, MG040H, MG050H	Stainless Steel
MP15, MP25, MP40, MP50	Aluminium or Stainless Steel
OM002, OM004, OM006, OM008, OM015, OM025. OM040, OM050, OM050E, OM080, OM080E, OM100, OM100E	Aluminium or Stainless Steel
TG025, TG040, TG050, TG080, TG100, TG150	Aluminium or Stainless Steel

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CONDITIONS OF CERTIFICATION:

1. It is a condition of manufacture that due to the welded joint on the turbine flowmeter, each EX50 series assembly shall be subjected to a routine pressure test of 9.48 bar (948 kPa) for at least 10 s, as required by Clause 16.1 of AS/NZS 60079.1. There shall be no damage or deformation as a result of the test.
2. It is a condition of safe use that the maximum diametric clearance of the cylindrical joint between the cover and body is 0.15mm.
3. It is condition of safe use that the temperature of the process fluid is to be less than:
   - 70°C for temperature class T6.
   - 120°C for temperature class T4 and mining applications.

DOCUMENTS:

Document Number	Document Title	Revision	Date
13-02-248 (Sheet 1 to 3)	Ex d Typical Component Requirements	01	16/11/2010
1306001-EX (Sheet 1 of 1)	MP Series Cover SS M20 Conduit Entry	05	12/11/2010
13-06-003-EX (Sheet 1 of 1)	MP Series Cover AL M20	05	12/11/2010
13-06-006-EX (Sheet 1 to 2)	MP Series Cover AL 0.5 in NPT	05	12/11/2010
13-06-008-EX (Sheet 1 of 1)	MP Series Cover SS 0.5 in NPT Conduit Entry	05	12/11/2010
13-06-020-EX (Sheet 1 of 1)	OM COVER - EX	03	12/11/2010
13-06-030-EX (Sheet 1 of 1)	OM COVER SS	02	25/08/2010
13-12-052-EX (Sheet 1 of 1)	Ex d Typical PCB Assembly	-	04/04/2006
13-15-001-EX (Sheet 1 of 1)	Customer Label	07	12/11/2010
13-15-095 (Sheet 1 of 1)	TRIMEC ANZEx Group I Label	-	06/12/2011
13-15-096 (Sheet 1 of 1)	TRIMEC ANZEx Group II Label	-	06/12/2011
14-02-148-EX (Sheet 1 to 3)	MP Series Ex d Requirements	-	17/08/2010
14-12-149-EX (Sheet 1 to 3)	OM Series Ex d Requirements	-	17/08/2010
14-02-150-EX (Sheet 1 to 3)	MG/TG Series Ex d Requirements	-	08/09/2010
14-02-151-EX (Sheet 1 to 3)	High Pressure Series Ex d Requirements	-	08/09/2010
14-02-154 (Sheet 1 to 4)	EX50 Enclosure Ex d Requirements	01	19/01/2011