

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

***Certificate of Conformity***

|  |                     |                                  |
|--|---------------------|----------------------------------|
| Certificate No.: <b>ANZEx 12.3024X</b> | Issue No.: <b>1</b> | Date of Issue: <b>13/02/2014</b> |
|  | Issue No.: <b>0</b> | Date of Issue: <b>08/03/2013</b> |

**Applicant:** Trolex Ltd  
Newby Road, Hazel Grove  
Stockport, Cheshire SK7 5DY  
United Kingdom

**Electrical Apparatus:** Pressure Transmitter Type 261MBGXXXXXXXXMXX  
Also identified as Pressure Sensor/Transmitter Type TX6114.01.11.6Z Or  
Submersible Level Sensor/Transmitter Type TX5814.01

**Type of Protection:** Ex ia

**Marking Code:** Ex ia I (Ta = 60 °C)

**Manufacturer:** Trolex Ltd  
Newby Road, Hazel Grove  
Stockport, Cheshire SK7 5DY  
United Kingdom

**Manufacturing Location(s):** As above

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

|   |   |   |
|---|---|---|
|  <p><b>Test Safe</b><br/>AUSTRALIA</p> | <p>Certificate issued by:</p> <p><b><i>TestSafe Australia</i></b><br/>919 Londonderry Road, Londonderry NSW 2753<br/><b>Australia</b><br/>Phone: +61 2 4724 4900 Fax: +61 2 4724 4999<br/><a href="http://www.testsafe.com.au">http://www.testsafe.com.au</a></p> |  <p><b>JAS-ANZ</b></p> <p><a href="http://www.jas-anz.org/register">www.jas-anz.org/register</a></p> |
|---|---|---|

This certificate and schedule shall not be reproduced except in full

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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 (including Amendment 1) |
| AS/NZS 60079.11:2006 | Explosive atmospheres – Part 11: Equipment protection by Intrinsic safety ‘i’                             |
| AS 60529:2004        | Degree of protection provided by enclosures (IP code)   |

*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:               | <b>33928, 34601; TestSafe Australia</b> |
| Quality Assessment Report No. and Issuing Body: | <b>GB/SIR/QAR07.0017/07; SIRA</b>       |

File Reference: **2012/007292, 2013/019893**



Ujen Singh

*Signed for and on behalf of issuing body*

Quality & Certification Manager

*Position*

13/02/2014

*Date of Issue*

**This certificate is not transferable and remains the property of the issuing body  
and must be returned in the event of it being revoked or not renewed.**

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**Schedule**

**EQUIPMENT:**

The Pressure Transmitter Type 261MBGXXXXXXXXMXX (also identified as Pressure Sensor/Transmitter Type TX6114.01.11.6Z or Submersible Level Sensor/Transmitter Type TX5814.01) is designed to produce a 2-wire, 4-20mA output signal proportional to the pressure in a fluid. The apparatus comprises a pressure sensor assembly, an amplifier board, an RFI board and a termination board, all housed in a stainless steel enclosure.

External connections are made either by an integral cable having a maximum length of 150 metres or by a plug and socket arrangement.

**CONDITIONS OF CERTIFICATION:**

1. The following parameters shall be taken into account during interconnection:

| Input parameters               | Input cable or socket |
|--------------------------------|-----------------------|
| U <sub>i</sub>                 | 16.5 V                |
| C <sub>i</sub>                 | 0.05 $\mu$ F          |
| L <sub>i</sub>                 | 0.35 mH               |
| L <sub>i</sub> /R <sub>i</sub> | 5.0 $\mu$ H/ $\Omega$ |

2. It is a condition of safe use that the screen of the integral cable may be connected internally to the frame of the apparatus and this must be taken into consideration when installing the apparatus.
3. It is a condition of safe use that Pin 4 of the optional plug/socket arrangement is connected internally to the frame of the apparatus and this must be taken into consideration when installing the apparatus.
4. It is a condition of safe use that the apparatus measures high process pressures, but shall be exposed to the hazardous gas at atmospheric pressure only.

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**DOCUMENTS:**

| Document No. | Sheets | Document Title  | Issue | Date<br>(yyyy-mm-dd) |
|--------------|--------|---|-------|----------------------|
| 562825PBF    | 1      | RFI Module Assy. – 500V AC For Gas Group IIC            | C     | 2006-03-13           |
| 562824PBF    | 1      | Schematic Wiring Diagram ASIC RFI 500V (Gas Group II C) | C     | 2006-03-07           |
| 561759       | 1      | ASIC Capsule IS Assembly Installation                   | D     | 2006-03-15           |
| 561887       | 1      | IS Pressure Transmitter Type 261MX (Mining)             | 6     | 2010-03-25           |
| 561900PBF    | 1      | PCB Assembly Fuse Board                                 | B     | 2005-11-09           |
| 561901PBF    | 1      | PCB Machining Fuse Board                                | D     | 2005-11-09           |
| 561902a      | 4      | PCB Artwork   | A     | 2002-05-07           |
| 562826PBF    | 10     | IS Hybrid Specification                                 | B     | 2006-02-06           |
| 561906       | 1      | IS Pressure Transmitter Connection Details (Mining)     | 3     | 2001-08-08           |
| 561908       | 1      | Schematic Wiring Diagram IS Mining 500V CVD ASIC        | A     | 2001-08-31           |
| DDA 1065     | 1      | Gems Sensors  | A     | 2007-09-19           |
| 562239       | 1      | Series 261M Part Numbering System - AUS                 | 2     | 2013-02-25           |
| 562240       | 1      | Series 261M Trolex Part Numbering System - AUS          | 2     | 2013-02-25           |

**Schedule of Variations**

**Variation Permitted by Issue 1:**

Variation to permit the effective input inductance appearing at the supply terminals to be reduced from 0.35 mH to a negligible value based on test data. The variation does not affect any of the previously certified drawings.

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**Condition of Certification Relating to Issue 1:**

For the sake of completeness the complete conditions of certification are reproduced below, the only change is to the table in clause 1.

1. The following parameters shall be taken into account during interconnection:

| <b>Input parameters</b> | <b>Input cable or socket</b> |
|-------------------------|------------------------------|
| $U_i =$                 | 16.5 V                       |
| $C_i =$                 | 0.05 $\mu$ F                 |
| $L_i =$                 | Negligible                   |

2. It is a condition of safe use that the screen of the integral cable may be connected internally to the frame of the apparatus and this must be taken into consideration when installing the apparatus.
3. It is a condition of safe use that Pin 4 of the optional plug/socket arrangement is connected internally to the frame of the apparatus and this must be taken into consideration when installing the apparatus.
4. It is a condition of safe use that the apparatus measures high process pressures, but shall be exposed to the hazardous gas at atmospheric pressure only.