

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

***Certificate of Conformity***

Certificate No.: ANZEx 12.3004X

Issue No.: 0

Date of Issue: 2012-02-14

**Applicant:** Trolex Limited  
Newby Road, Hazel Grove  
Stockport, Cheshire, SK7 5DY  
UK

**Electrical Apparatus:** TX6273 and TX6274 Temperature Sensor/Transmitter

**Type of Protection:** Intrinsic Safety 'ia'

**Marking Code:** ANZEx 12.3004X  
Ex ia I / Ex ia IIC T4  
Ta = -20 °C to +60 °C

**Manufacturer:** Trolex Limited  
Newby Road, Hazel Grove  
Stockport, Cheshire, SK7 5DY  
UK

**Manufacturing Location(s):** Trolex Limited  
Newby Road, Hazel Grove  
Stockport, Cheshire, SK7 5DY  
UK

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

**This certificate and schedule shall not be reproduced except in full**

	<p>Certificate issued by:</p> <p style="text-align: center;"><b>TestSafe Australia</b> 919 Londonderry Road, Londonderry NSW 2753 Australia Phone: +61 2 4724 4900 Fax: +61 2 4724 4999 <a href="http://www.testsafe.com.au">http://www.testsafe.com.au</a></p>	 <p><a href="http://www.jas-anz.com.au/register">www.jas-anz.com.au/register</a></p>
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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 60079-11:2006	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:	33377 ; TestSafe
Quality Assessment Report No. and Issuing Body:	GB/SIR/QAR07.0017/02 ; Sira
File Reference:	2011/021893



*Signed for and on behalf of issuing body*

Quality & Certification Manager

*Position*

2012-02-14

*Date of Issue*

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**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 TX6273 and TX6274 Temperature Sensor/Transmitter are temperature sensors. They take a signal from an integral resistance temperature sensor, condition the signal and output it, in analogue form, to external monitoring equipment. The two models differ in the location of the sensing element.

There are five builds of the Sensor/Transmitter:

Group I	0.4-2V
Group I	5-15Hz
Group I	4-20mA, 3/4 wires
Group I	4-20mA, 2 wires
Group IIC	4-20mA, 2 wires

**CONDITIONS OF CERTIFICATION:**

- It is a condition of safe use that the following entity parameters for the terminals shall be taken into account during installation:

	<b>Group I</b> <b>4-20mA, 3/4-wire</b>		<b>Group I</b> <b>0.4-2V</b>		<b>Group I</b> <b>5-15Hz</b>	
	<b>T1-T2</b> <b>(signal)</b>	<b>T3-T4</b> <b>(supply)</b>	<b>T1-T2</b> <b>(signal)</b>	<b>T3-T4</b> <b>(supply)</b>	<b>T1-T2</b> <b>(signal)</b>	<b>T3-T4</b> <b>(supply)</b>
<b>Ui</b>	16.5V	16.5V	16.5V	16.5V	16.5V	16.5V
<b>Ii</b>	150mA	-	150mA	-	-	-
<b>Pi</b>	0.62W	-	0.62W	-	2.5W	-
<b>Ci</b>	1.2nF	0	1.2nF	0	0	0
<b>Li/Ri</b>	<20uH/Ω	<20uH/Ω	<20uH/Ω	<20uH/Ω	<20uH/Ω	<20uH/Ω
<b>Uo</b>	16.5V	-	-	-	-	-
<b>Io</b>	281mA	-	-	-	-	-
<b>Po</b>	1.158W	-	-	-	-	-
<b>Co</b>	857nF	-	-	-	-	-
<b>Lo</b>	2955uH	-	-	-	-	-

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	Group I 4-20mA, 2-wire		Group II 4-20mA, 2-wire	
	T1-T4	T2-T3	T1-T4	T2-T3
<b>Ui</b>	16.5V	1.5V	28V	1.5V
<b>Ii</b>	-	100mA	120mA	100mA
<b>Pi</b>	-	25mW	0.84W	25mW
<b>R<sub>source</sub></b>	-	-	234Ω	-
<b>Ci</b>	0	0	38nF	0
<b>Li</b>	-	-	9uH	9uH
<b>Li/Ri</b>	<20uH/Ω	<20uH/Ω	-	-
<b>Uo</b>	N/A	16.5V	N/A	28V
<b>Io</b>	N/A	17mA	N/A	28mA
<b>Co</b>	N/A	5nF	N/A	5nF
<b>Lo</b>	N/A	5uH	N/A	5uH

2. It is a condition of safe use that since potential electrostatic charging may develop on surface of the apparatus, the apparatus shall only be cleaned with a damp cloth.

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### DOCUMENTS:

Document Number	Sheets	Document Title	Rev.	Date (yyyy-mm-dd)
P5460.24	1	PCB Artwork (5-15Hz)	A	1997-07-07
P5460.109	1	Circuit Diagram 5-15Hz Module P.C.B.	A	1998-05-18
P5485.02	1	General Arrangement	E	2010-11-04
P5485.03	1	Certified Block Diagram	A	2002-09-25
P5485.04 Sheet 1 of 2	1	Output PCB Certified Circuit Diagram (Gp I only)	C	2002-09-20
P5485.04 Sheet 2 of 2	1	Certified Parts List Group I 0.4 to 2V, 4 to 20mA and 5 to 15Hz	C	2002-09-20
P5486.06	4	Output PCB (track layout based on P5485.04)	A	1999-09-01
P5487.01	1	Certified Circuit Diagram Output PCB	B	2002-09-20
P5487.03	5	Output PCB (track layout based on P5487.01)	A	1999-09-21
P5487.04	4	Display PCB (track layout)	A	1999-09-01
P5487.07	1	Certified Circuit Diagram Display PCB	B	1999-12-14
P5485.27	1	Certification Labels	C	2012-02-06

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