

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

Certificate of Conformity

Certificate No.: ANZEx 09.3000X	Issue No.: 1	Date of Issue: 09/10/2009
	Issue No.: 0	Date of Issue: 20/06/2009

Applicant: Moore Industries-International Inc.
16650 Schoenborn Street
North Hills CA 91343-6196
United States of America

Electrical Apparatus: Current to Pressure Transmitter Models IPX2, IPX2-NG, IPH2 and IPT2

Type of Protection: IPX2, IPX2-NG, IPH2: Ex ia
IPX2, IPH2, IPT2: Ex n

Marking Code: ANZEx 09.3000X
 IPX2: Ex ia IIC T4@85°C /T5@70°C IP56 and Ex n IIC T6@55°C
 IPX2-NG: Ex ia IIC T4@85°C /T5@70°C IP66
 IPH2: Ex ia IIC T4@85°C /T5@70°C and Ex n IIC T6@55°C
 IPT2: Ex n IIC T6@55°C

Manufacturer: Moore Industries-International Inc.
16650 Schoenborn Street
North Hills CA 91343-6196
United States of America

Manufacturing Location(s): As above

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

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	<p>Certificate issued by:</p> <p><i>TestSafe Australia</i> 919 Londonderry Road, Londonderry NSW 2753 Australia Phone: +61 2 4724 4900 Fax: +61 2 4724 4999 http://www.testsafe.com.au</p>	 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 (including Amendment 1) |
| AS/NZS 60079.11:2006 | Explosive atmospheres – Part 11: Equipment protection by Intrinsic safety ‘i’ |
| AS/NZS 60079.15:2006 | Electrical apparatus for explosive gas atmospheres – Part 15: Construction, test and marking of type of protection, ‘n’ electrical apparatus (including Amendment 1) |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards 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: | TestSafe Report 30543 in 2008/018694 |
| Quality Assessment Report No. and Issuing Body: | Sira Report No. 55A/7037 |
| File Reference: | 2009/023562 |



09/10/2009

Signed for and on behalf of issuing body

Date of Issue

Quality & Certification Manager

Position

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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 Current-to-Pressure (I/P) Transmitter converts a current signal to a pneumatic signal so that an electronic-based system such as a DCS, PLC, or PC can control a pneumatic actuator, valve, or damper drive. Available models accept a wide range of current inputs (4 – 20 mA, 4 – 12 mA, and 12 – 20 mA) and provide a proportional pneumatic signal (3 – 15 psig, 0.2 – 1 Bar, 20 – 100 kPa, etc.).

Housing Styles vary according to Model:

- Ø IPX2: Field Mounted & robust aluminium body.
- Ø IPH2: Field Mounted & compact lightweight aluminium body with polyester or aluminium terminal cover housing.
- Ø IPT2: Compact 40 mm wide aluminium housing for mounting onto DIN-rail or pneumatic header rack. Requires optional housing for field mounting.

CONDITIONS OF CERTIFICATION:

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

	Ex ia	Ex n
Input Parameters	Terminals +PS/-PS	Terminals +PS/-PS
Maximum Input Voltage U_i	30 V	30 V
Maximum Input Current I_i (limited by series resistor in the barrier)	110 mA	110 mA
Maximum Internal Capacitance C_i	5.7 μ F at 7.14 V	
Maximum Internal Inductance L_i	0 mH	

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DOCUMENTS:

Document No.	Sheets	Document Title	Issue	Date
504-570-01	2	PC1, IPT [DIN]	B	10/00
504-570-02	3	IPT (<i>Track Artworks</i>)	B	04/10/2000
504-571-01	2	PC2 IPT2-DIN	D	02/04
504-571-02	3	IPT-PC2 (<i>Track Artworks</i>)	D	11/02/2004
504-572-01	2	PC3, IPT [DIN]	B	29/07/1996
504-572-02	3	IPT-DIN PC3 (<i>Track Artworks</i>)	B	-
504-573-01	2	PC4, IPT2 [DIN]	C	05/01
504-573-02	4	IPT-DIN PC4 (<i>Track Artworks</i>)	C	-
507-507-01	2	PC1 IPH2-MII/IPX2-MII	D	10/02
507-507-02	4	IPH-MII/IPX-MII PC1 (<i>Track Artworks</i>)	D	30/09/2002
507-508-01	2	PC3 IPH2-MII	B	11/06
507-508-02	4	IPH-MII PC3 (<i>Track Artworks</i>)	B	17/11/2006
507-510-01	2	PC2 IPH2-MII/IPX2-MII	C	10/02
507-510-02	4	IPH-MII/IPX-MII PC2 (<i>Track Artworks</i>)	C	30/09/2002
507-511-01	2	PC3 IPX2-MII	B	11/04
507-511-02	4	IPX-MII PC3 (<i>Track Artworks</i>)	B	18/11/2004
509-552-01	2	PC1 IPX2-RO Option	A	01/07
509-552-02	4	IPX2-RO PC1 (<i>Track Artworks</i>)	B	25/02/2009
509-553-01	2	PC3 IPX2-RO Option	A1	02/07
509-553-02	4	IPX2-RO PC3 (<i>Track Artworks</i>)	A	01/02/2007
170-430-00	1	IPT2-DIN (<i>Schematic</i>)	F	04/03
170-460-00	1	IPX2/IPH2 (<i>Schematic</i>)	D	10/02
170-531-00	1	PC2 IPT2-DIN (<i>PC Assembly</i>)	C	04/03
170-533-00	1	PC4, IPT2 [DIN] (<i>PC Assembly</i>)	C	05/01
170-540-00	1	PC5, IPT2 DIN (<i>PC Assembly</i>)	C	04/03
170-555-00	1	PC1 IPH2-MII/IPX2-MII Not 4-20mA/3-15PSiG (SMT) (<i>PC Assembly</i>)	D	07/03
170-555-01	1	PC1 IPH2-MII/IPX2-MII 4-20mA/3-15PSiG (SMT) (<i>PC Assembly</i>)	C	08/02
170-555-02	1	PC1 IPH2-MII/IPX2-MII 4-20mA/3-15PSiG (Thru-Hole) (<i>PC Assembly</i>)	A	09/01
170-555-03	1	PC1 IPH2-MII/IPX2-MII Not 4-20mA/3-15PSiG (Thru-Hole) (<i>PC Assembly</i>)	A	09/01
170-555-05 & 170-555-29	1	PC1 IPH2 /IPX2 3-27/6-30PSiG (SMT & Thru-Hole) (<i>PC Assembly</i>)	A	02/03

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Document No.	Sheets	Document Title	Issue	Date
170-555-28	1	PC1 IPH2 /IPX2 3-15PSiG (SMT & Thru-Hole) (PC Assembly)	A	02/03
170-556-00	1	PC2 IPH2-MII (PC Assembly)	A	12/02
170-557-00	1	PC3 IPH2-MII (PC Assembly)	B	04/08
170-560-00	1	PC2 IPX2-MII (PC Assembly)	B	08/02
170-561-00	1	PC3 IPX2-MII (PC Assembly)	B	04/08
170-570-00	1	IPX2-RO Option PC1 (Switch Selectable) (Fabrication)	A	01/07
170-571-00	1	IPX2-RO Option PC1 (Switch Selectable) (PC Assembly)	A1	04/07
170-572-00	1	PC3 IPX2-RO Option (PC Assembly)	B	04/08
204-272-00	1	Electro-Valve Assembly, I/P (Mechanical Assembly)	H	11/01
204-277-00	1	Potted Core Assembly, I/P (Mechanical Assembly)	B	11/01
200-251-2051	1	TAG, ID, IPH2 TestSafe-ANZEx: I.S., Type N	B	04/09
200-251-2081	1	TAG, Model No., IPX2 (Standard I/P Unit: Air) CSA/FM/KEMA:I.S./N.I/Exp-Prf. TestSafe-ANZEx: I.S. & Type N (MII-Type N) Universal ID Tag	B	05/09
200-251-2082	1	TAG, Model No., IPX2 Current-to-pressure X-mitter CSA/FM/KEMA: I.S. & Exp-Prf. TestSafe-ANZEx:I.S.-NG Option: Natural/Sweet Gas (Universal ID Tag)	B	05/09
200-251-2324	1	ID Label IPT2 DIN Current-to-pressure X-mitter TestSafe-ANZEx: Type N	A	05/09

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Schedule of Variations

Variations Permitted by Issue 1:

Additional information added in the Certificate that were assessed in Test Report 30543:

1. Added IP rating in the Certificate.
2. Added equivalent internal capacitance for input voltage above 20 V.

Condition of Certification Relating to Issue 1:

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

	Ex ia	Ex n
Input Parameters	Terminals +PS/-PS	Terminals +PS/-PS
Maximum Input Voltage U_i	30 V	30 V
Maximum Input Current I_i (limited by series resistor in the barrier)	110 mA	110 mA
Maximum Internal Capacitance C_i	5.7 μ F at 7.14 V 0 μ F at $U_i > 20$ V	
Maximum Internal Inductance L_i	0 mH	