

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

Certificate of Conformity

Certificate No.: ANZEx 09.3020X	Issue No.: 0	Date of Issue: 2 December 2009
--	---------------------	---------------------------------------

Applicant: Moore Industries –International Inc.
16650 Schoenborn Street
North Hills CA 91343-6196
U.S.A

Electrical Apparatus: Fully Encapsulated PC-Programmable Temperature Transmitters (TRX: non-isolated; and TRY: isolated)

Type of Protection: Ex ia

Marking Code: Ex ia IIC T5 @ +85 °C

Manufacturer: Moore Industries –International Inc.
16650 Schoenborn Street
North Hills CA 91343-6196
U.S.A

Manufacturing Location(s): As above.

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

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

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

Certificate of Conformity

Certificate No.: ANZEx 09.3020X	Issue No.: 0	Date of Issue: 2 December 2009
--	---------------------	---------------------------------------

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 equipment 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 enclosure (IP code)

*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:	30577, TestSafe
Quality Assessment Report No. and Issuing Body:	55A/7037,SIRA, Reviewed by TestSafe

File Reference:	2007/025237
-----------------	--------------------



Signed for and on behalf of issuing body

2 December 2009

Date of Issue

Quality & Certification Manager

Position

This certificate and schedule shall not be reproduced except in full

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.

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

Certificate of Conformity

Certificate No.: **ANZEx 09.3020X**

Issue No.: **0**

Date of Issue: **2 December 2009**

Schedule

EQUIPMENT:

The PC- Programmable Temperature Transmitter TRX: non-isolated model is fully encapsulated within a plastic enclosure and the electrical connections are provided with screw terminals on top of the plastic enclosure. There are two PCBs in this model.

The PC- Programmable Temperature Transmitter TRY: isolated model is fully encapsulated within a plastic enclosure and the electrical connections are provided with screw terminals on top of the plastic enclosure. There are three PCBs in this model.

Each model of apparatus provides a proportional 4-20 mA signal output derived from input signal of an RTD probe or a thermocouple or a milli-volt source of maximum 1000 mV. The PCB assembly is identified as HPP-Style (Hockey-Puck Housing) in the instruction manual. The power supply is connected to the screw terminals marked +PS and -PS. The temperature sensor is connected to the screw terminals marked 1, 2, 3 and 4 of the HPP model housing. The COM port is to be used only in the non-hazardous area and the parameters are given in the label drawing.

The enclosures of both TRX and TRY Transmitters are plastic. The drawing number 204-284-01 and 204-284-02 provide details of the top and bottom part of this enclosure.

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

Certificate of Conformity

Certificate No.: **ANZEx 09.3020X**

Issue No.: **0**

Date of Issue: **2 December 2009**

CONDITIONS OF CERTIFICATION:

1. When used in Zone 0 a warning on potential electrostatic charging hazard is required.
2. The following input and output parameters must be taken into account when installed:

Input parameters at + PS, -PS terminals:

TRY (isolated) and TRX (non-isolated)

$U_i = 30V$

$I_i = 110 \text{ mA}$

$P_i = 825 \text{ mW}$

$C_i = 5.2 \text{ nF}$

$L_i = 0 \text{ } \mu\text{H}$

Output parameters at terminals where temperature sensor is connected:

TRY Model, Terminals 1, 2, 3, 4.

$U_o = 6.51 \text{ V}$

$I_o = 205 \text{ mA}$

$P_o = 675 \text{ mW}$

$L_o = 0.410 \text{ mH}$

$C_o = 5.1 \text{ } \mu\text{F}$

This certificate and schedule shall not be reproduced except in full

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

Certificate of Conformity

Certificate No.: ANZEx 09.3020X	Issue No.: 0	Date of Issue: 2 December 2009
--	---------------------	---------------------------------------

TRX Model, Terminals 1, 2, 3, 4.

U_o = 6.51 V

I_o = 110 mA

P_o = 532 mW

L_o = 1.4 mH

C_o = 2.262 μF

DOCUMENTS:

Document Number	Document Title	Revision	Date
	PC Programmable Temperature Transmitter TRX: non-isolated		
235-866-00 2 sheets	PC1 Bom Description	B	----/--/--
235-882-00	TRX PC2 Bom Description	D	----/--/--
506-551-02	TRX-HPP PC1 Primary Side Circuitry <i>(PCB Art Work)</i>	B	2002/09/06
506-551-02	TRX-HPP PC1 Secondary Side Circuitry <i>(PCB Art Work)</i>	B	2002/09/06
506-551-02	TRX-HPP PC1 Inner Layer 1 Circuitry <i>(PCB Art Work)</i>	B	2002/09/06
506-551-02	TRX-HPP PC1 Inner Layer 2 Circuitry <i>(PCB Art Work)</i>	B	2002/09/06
235-582-00	PC2, T2X [HPP] TRX- R [HPP], P2X [HPP] <i>(PC Assembly)</i>	D	2002/03/--

This certificate and schedule shall not be reproduced except in full

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

Certificate of Conformity

Certificate No.: ANZEx 09.3020X	Issue No.: 0	Date of Issue: 2 December 2009
--	---------------------	---------------------------------------

Document Number	Document Title	Revision	Date
506-571-02	T2X [HPP] & TRX [HPP] – R PC2 Primary Side Circuitry <i>(PCB art work)</i>	D	2006/01/15
506-571-02	T2X [HPP] & TRX [HPP] – R PC2 Secondary Side Circuitry <i>(PCB art work)</i>	D	2006/01/15
235-466-00	TRX [HPP] – R Option <i>(Schematic)</i>	D	2004/08/--
235-566-00	PC1, TRX [HPP] – R Option <i>(PC Assembly)</i>	B	2002/09/--
235-568-00 3 sheets	Top Assembly, TRX [HPP] –R Option <i>(PC Assembly)</i>	A	2000/03/--
506-551-01 2 sheets	PC1, TRX [HPP] – R Option <i>(PC Fabrication)</i>	B	2002/09/--
506-571-01 2 sheets	PC2, T2X [HPP] & TRX [HPP]– R <i>(PC Fabrication)</i>	D	2006/01/--
200-251-1712	Label, ANZEx TRX-ISA [HPP], Intrinsically Safe	B	2009/10/-
	PC Programmable Temperature Transmitter TRY: isolated		
235-876-00 2 sheets	PC1 Bom Description	C	----/--/--
235-877-00	PC2 Bom Description	B	----/--/--
235-878-00 2 sheets	List of materials PC3	F1	----/--/--

This certificate and schedule shall not be reproduced except in full

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

Certificate of Conformity

Certificate No.: ANZEx 09.3020X	Issue No.: 0	Date of Issue: 2 December 2009
--	---------------------	---------------------------------------

Document Number	Document Title	Revision	Date
506-556-02	TRY [HPP] – R PC1 Primary Side	D	2002/11/22
506-556-02	TRY [HPP] – R PC1 Secondary Side	D	2002/11/22
506-556-02	TRY [HPP] – R PC1 Inner Layer 1	D	2002/11/22
506-556-02	TRY [HPP] – R PC1 Inner Layer 2	D	2002/11/22
506-557-02	TRY-HPP PC2 Primary Side	B	2002/11/22
506-557-02	TRY-HPP PC2 Secondary Side	B	2002/11/22
506-558-02	PC3, TRY-R HPP Primary Side	G	2008/09/30
506-558-02	PC3, TRY-R HPP Secondary Side	G	2008/09/30
506-558-02	PC3, TRY-R HPP Innaer Layer 1	G	2008/09/30
235-476-00	PC1, TRY [HPP] –R Option <i>(Schematic)</i>	J	2006/08/--
235-476-00	PC2, TRY [HPP] –R Option <i>(Schematic)</i>	J	2006/08/--
235-476-00	PC3, TRY [HPP] –R Option <i>(Schematic)</i>	J	2006/08/--

This certificate and schedule shall not be reproduced except in full

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

Certificate of Conformity

Certificate No.: ANZEx 09.3020X	Issue No.: 0	Date of Issue: 2 December 2009
--	---------------------	---------------------------------------

Document Number	Document Title	Revision	Date
235-576-00	PC1, TRY [HPP] –R Option <i>(PC Assembly)</i>	C	2002/11/--
235-577-00	PC2, TRY [HPP] –R Option <i>(PC Assembly)</i>	B	2002/11/--
235-578-00	PC3, TRY [HPP] –R Option <i>(PC Assembly)</i>	F	2007/02/--
235-579-00 3 sheets	Top Assembly, TRY-HPP –R Option <i>(PC Assembly)</i>	A	2000/03/--
506-556-01 2 sheets	PC1, TRY [HPP] –R Option <i>(PC Fabrication)</i>	D2	2008/07/--
506-557-01 2 sheets	PC2, TRY [HPP] –R Option <i>(PC Fabrication)</i>	B	2002/11/--
506-558-01 2 sheets	PC3, TRY [HPP] –R Option <i>(PC Fabrication)</i>	G	2008/09/--
235-569-00	Front Panel Sub-Assembly TRX / TRY –R Option <i>(Mech Assembly)</i>	A	2000/03/--
200-251-1721	Label, ANZEx TRY-ISA [HPP], Intrinsically Safe	B	2009/10/-
205-248-00	TRY Case Assembly – R Option Mech Assy)	B	2004/09
204-284-01	TRX / TRY Case Top <i>(Fabrication)</i>	B	1995/06/-
204-284-02	TRX / TRY Case Bottom <i>(Fabrication)</i>	A	1995/06/-

This certificate and schedule shall not be reproduced except in full

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

Certificate of Conformity

Certificate No.: **ANZEx 09.3020X** Issue No.: **0** Date of Issue: **2 December 2009**

Document Number	Document Title	Revision	Date
235-710-01	TRY & TRX PC-Programmable Temperature Transmitters (Service manual)	N	2005/04/-

This certificate and schedule shall not be reproduced except in full