

# Certificate of Conformity

Certificate No.: AN	NZEx 09.3020X	Current Issue: 1	Date of Issue:	2019-04-18		
Applicant:	<b>Moore Industries Inte</b> 16650 Schoenborn Str North Hills CA 91343 U.S.A					
Equipment:	Fully Encapsulated PC-F and TRY: isolated)	Programmable Temperat	ure Transmitters (TRX: I	non-isolated;		
Type of Explosion Protection:	Intrinsic Safety 'ia'					
Explosion Protection Marking:	Ex ia IIC T5  -20 °C ≤	<i>T</i> a ≤ +85 °C				
Standard	This certificate is granted s ds Australia/Standards Nev	ubject to the conditions of version of the conditions of the version of the versi	as set out in Publication <b>MP87.1</b>			
Signed for and on beha	alf of issuing body		U-A:			
	Name & Position	Ujen Singh, C	Quality & Certification I	Vanager		
This certificate is not transferable and remains the property of the issuing body. The status of this certificate can be confirmed through the database located at <u>www.anzex.com.au</u>						
Certificate is:						
	919 Londonderry Road,	tSafe Australia Londonderry NSW 2	753 Australia			
JAS-ANZ	P	age 1 of 6	Test			



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EPF019\_23 - date issued 29/01/2019



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Manufacturer :	<b>Moore Industries Inter</b> 16650 Schoenborn Stre North Hills CA 91343			
	U.S.A.			
Additional Manufacturing	<b>A</b> 1 1			
Location(s):	'None'			
STANDARDS:				
	y acceptable variations to it specifie to comply with the following stand		ertificate and the identified	d
AS/NZS 60079-0:2005	Electrical equipment for explo	osive gas atmospheres– Part 0	: General requirements	
	(Including Amendment 1)			
AS/NZS 60079.11:200	6 Explosive atmospheres– Part	11: Equipment protection by I	ntrinsic safety "i"	
AS 60529:2004	Degree of protection provided	d by enclosure (IP code)		
This Cartificate daga p	at indicate compliance with actatu	and norformance requirem	onto other then these own	roooly

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### **TEST & ASSESSMENT REPORTS:**

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

Test Report Nos. & Issuing Bodies associated with all issues of the certificate:	30577, TestSafe
Quality Assessment Report No. & Issuing Body:	GB/FME/QAR18.0009/00 FM Approvals
File Reference:	2007/025237, 2018/020108







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#### Schedule

#### **Equipment Description:**

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.

#### Variations Permitted by this Issue:

- 1. Change of QAR issuer to FM Approvals GB/FME/QAR18.0009/00.
- 2. Marking label drawings changed to show ambient temperature range instead of the maximum ambient temperature.

#### **Specific Conditions of Use:**

- 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)

Ui = 30V

li = 110 mA

Pi = 825 mW



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Ci = 5.2 nF						
Li = 0 µH						
Output parameters	at terminals where temperature	sensor is connected.				
TRY Model, Termi	nals 1, 2, 3, 4.					
Uo = 6.51 V						
lo = 205 mA						
Po = 675 mW						
Lo = 0.410 mH						
Co = 5.1 μF						
TRX Model, Termi	nals 1, 2, 3, 4.					
Uo = 6.51 V						
lo = 110 mA						
Po = 532 mW						
Lo = 1.4 mH						
Co = 2.262 µF						
Additional Informa	ation:					
The infallible transformer T201 shall be subjected to routine tests as per clause 11.2 of AS/NZS						

The infallible transformer T201 shall be subjected to routine tests as per clause 11.2 of AS/NZS 60079.11:2006.

Manufacturer's Documents associated with this Issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
200-251-1712	1	Label, ANZEx TRX-ISA [HPP], Intrinsically Safe	B1	2019-05
200-251-1721	1	Label, ANZEx TRY-ISA [HPP], Intrinsically Safe	B1	2019-05



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### Certificate of Conformity EX EQUIPMENT

Certificate No.: ANZEx 09.3020X

Current Issue:

Date of Issue:

2019-04-18

### **History of Issues and Variations**

#### Issue 0 dated 2009-12-02

Manufacturer's Documents associated with Issue 0:

Document Number	Pages / Sheets	Document Title	Revision	Date		
PC Programmable Temperature Transmitter TRX: non-isolated						
235-866-00	2	PC1 Bom Description	В	-		
235-882-00	1	TRX PC2 Bom Description	D	-		
506-551-02	1	TRX-HPP PC1 Primary Side Circuitry (PCB Art Work)	В	2002-09-06		
506-551-02	1	TRX-HPP PC1 Secondary Side Circuitry (PCB Art Work)	В	2002-09-06		
506-551-02	1	TRX-HPP PC1 Inner Layer 1 Circuitry (PCB Art Work)	В	2002-09-06		
506-551-02	1	TRX-HPP PC1 Inner Layer 2 Circuitry (PCB Art Work)	В	2002-09-06		
235-582-00	1	PC2, T2X [HPP] TRX- R [HPP], P2X [HPP] (PC Assembly)	D	2002-03		
506-571-02	1	T2X [HPP] &TRX [HPP] – R PC2 Primary Side Circuitry (PCB art work)	D	2006-01-15		
506-571-02	1	T2X [HPP] &TRX [HPP] – R PC2 Secondary Side Circuitry (PCB art work)	D	2006-01-15		
235-466-00	1	TRX [HPP] – R Option (Schematic)	D	2004-08		
235-566-00	1	PC1, TRX [HPP] – R Option (PC Assembly)	В	2002-09		
235-568-00	3	Top Assembly, TRX [HPP] –R Option ( <i>PC Assembly</i> )	А	2000-03		
506-551-01	2	PC1, TRX [HPP] – R Option (PC Fabrication)	В	2002-09		
506-571-01	2	PC2, T2X [HPP] & TRX [HPP]– R (PC Fabrication)	D	2006-01		
200-251-1712	1	Label, ANZEX TRX-ISA [HPP], Intrinsically Safe	В	2009-10		
	P	C Programmable Temperature Transmitter TRY: isolated		<u> </u>		
235-876-00	2	PC1 Bom Description	С	-		
235-877-00	2	PC2 Bom Description	В	-		
235-878-00	2	List of materials PC3	F1	-		



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Certificate No.:	ANZEx 09.302	20X	Current Issue: 1	Date of Iss	sue:	2019-04-18
	1 1	тс				
506-556-02	1	יו	RY [HPP] – R PC1 Primary Side		D	2002-11-22
506-556-02	1		RY [HPP] – R PC1 Secondary Side		D	2002-11-22
506-556-02	1		RY [HPP] – R PC1 Inner Layer 1		D	2002-11-22
506-556-02	1	TR	RY [HPP] – R PC1 Inner Layer 2		D	2002-11-22
506-557-02	1		TRY-HPP PC2 Primary Side		В	2002-11-22
506-557-02	1		TRY-HPP PC2 Secondary Side		В	2002-11-22
506-558-02	1		C3, TRY-R HPP Primary Side		G	2008-09-30
506-558-02	1		C3, TRY-R HPP Secondary Side		G	2008-09-30
506-558-02	1	P	C3, TRY-R HPP Innaer Layer 1		G	2008-09-30
235-476-00	1		TRY [HPP] –R Option (Schematic)		J	2006-08
235-476-00	1	PC2, <sup>-</sup>	(Schematic) TRY [HPP] –R Option (Schematic)		J	2006-08
235-476-00	1	PC3, <sup>-</sup>	(Schematic) (Schematic)		J	2006-08
235-576-00	1		(PC Assembly)		С	2002-11
235-577-00	1	PC2, <sup>-</sup>	(PC Assembly) (PC Assembly)		В	2002-11
235-578-00	1	PC3, <sup>-</sup>	(PC Assembly) (PC Assembly)		F	2007-02
235-579-00	3	Top Assen	nbly, TRY-HPP –R Option (PC Assembly)	n	А	2000-03
506-556-01	2	PC1, <sup>-</sup>	(PC Fabrication)		D2	2008-07
506-557-01	2	PC2, <sup>-</sup>	(PC Fabrication)		В	2002-11
506-558-01	2	PC3, <sup>2</sup>	TRY [HPP] –R Option (PC Fabrication)		G	2008-09
235-569-00	1	Front Panel Sub-	Assembly TRX / TRY –R Mech Assembly)	Option	А	2000-03
200-251-1721	1		RY-ISA [HPP], Intrinsical	ly Safe	В	2009-10
205-248-00	1	TRY Cas	se Assembly – R Option Mech Assy)		В	2004-09
204-284-01	1	TR	X / TRY Case Top (Fabrication)		В	1995-06
204-284-02	1	TRX	/ TRY Case Bottom (Fabrication)		А	1995-06
235-710-01	1		TRY & TRX able Temperature Transm Service manual)	nitters	Ν	2005-04



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