

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Applicant: **Trolex Limited**
Newby Road, Hazel Grove
Stockport SK7 5DY
U.K.

Equipment: Programmable Sensor Controller Type TX9042

Type of Explosion Protection: Intrinsic safety "ia"

Explosion Protection Marking: Trolex Ltd
TX9042 Programmable Sensor Controller
Ex ia I
ANZEx 06.3057X
Ser No. ...

*This certificate is granted subject to the conditions as set out in
Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1***

Signed for and on behalf of issuing body



Name & Position

Debbie Wouters – Acting Quality & Certification Manager

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 www.anzex.com.au

Certificate issued by:

TestSafe Australia
919 Londonderry Road, Londonderry NSW 2753 Australia

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Manufacturer : **Trolex Limited**
Newby Road, Hazel Grove
Stockport SK7 5DY
U.K.

**Additional
Manufacturing
Location(s):** None

STANDARDS:

The equipment 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:

IEC 60079-0:2000 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11:1999 Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety "i"

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 No. & Issuing Body: Baseefa 06(C)0985, TestSafe 29704, Baseefa 05(C)0460, 10(C)0863, 12(C)0126, TestSafe 33925, Baseefa GB/BAS/ExTR17.0194/00

Quality Assessment Report No. GB/SIR/QAR07.0017/07
& Issuing Body:

File Reference: 2017/017016

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Schedule

Equipment Description:

The Programmable Sensor Controller Type TX9042 provides signal conditioning and monitoring for up to 8 transducers. Each transducer is connected via a dedicated Input PCB which provides the signal conditioning. A programmable microprocessor circuit monitors the conditioned signals to provide local display, monitoring and control signals, and digital data transmission.

The TX9042 is powered from an external nominal 12 V certified IS power supply ($U_i \leq 16.5$ V).

The electronic circuitry, comprising up to 13 PCBs (Power Supply module, Display PCB, Control PCB, Input PCB, Comms Module and up to 8 'Input' Modules), is housed in a moulded plastic enclosure which is itself housed in a stainless steel outer enclosure that provides facilities such as gland entries for restraining incoming cables. This enclosure has been assessed as providing a degree of protection of not less than IP54.

The Control PCB carries the microprocessor circuitry and the control relays and is mounted in the centre of the moulded enclosure; mounted over this, fixed to the top of the enclosure and connected to the Control PCB by a flat ribbon connector, is the Display PCB. An LCD is fitted on the Display PCB along with a connector to interface with a membrane keypad moulded into the top of the unit; the relay status LEDs and a piezo-electric buzzer are also mounted on the Display PCB.

Optional data link circuitry is fitted onto a small daughter board (Digital Comms, RS485 Comms) which has pins for connection onto the Control PCB.

Beneath the Control PCB is fitted an Input PCB which carries up to eight transducer 'Input Modules' which can be selected from the following list and which may be fitted in any position on the Input PCB. Each Input Module is a small PCB fitted with input terminals and signal processing circuitry.

The Input Modules comprise:

- DC Analogue Input (that can be configured for voltage, current or temperature input)
- Digital Input (with an option of Vortex input)
- Digital Input (Failsafe)
- AC (RMS) Analogue Input
- Thermocouple Input
- Strain gauge Input
- Flow Sensor Input

A Power Supply Module connects to the underside of both the Input PCB and the Control PCB.

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Connections between the modules, Input PCB, Power Supply Module and Control PCB are by PCB-mounted two-part connectors.

Connections to external power sources can be made at :

- i. Terminals A17, A18 - input to Power Supply Module
- ii. Terminals B1 to B6 - Digital comms
- iii. Terminals B7 to B18 - Relay contacts (3 contacts per relay)
- iv. Terminals A1 to A16, A19 to A34 - Input Modules (4 terminals per module)

Specific Conditions of Use:

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

Power Supply Connection

Terminals A17, A18 (Power)

| | |
|----------------|--------|
| U _i | 16.5 V |
| C _i | 0 |
| L _i | 0 |

Terminals A35, A36 (Control Function)

| | |
|----------------|---|
| U _i | 0 |
| I _i | 0 |
| P _i | 0 |
| C _i | 0 |
| L _i | 0 |

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

DC Analogue Input Module Connections

This module may be configured, when ordered, for any one of three types of signal input – voltage, current or temperature:

Voltage Input:**Power Output Terminal T1 w.r.t. T4**

| | |
|-----------|---------------------------------|
| U_o | U_i (power supply connection) |
| I_o | * |
| P_o | * |
| C_o | * |
| L_o | * |
| L_o/R_o | * |

Note: parameters marked * are obtained from the certification documents of the power supply connected

Input Terminals T2, T3 w.r.t. T4

| | |
|-------|--------|
| U_i | 16.5 V |
| C_i | 120 nF |
| L_i | 0 |

| | |
|-------|-------------|
| U_o | 6.51 V |
| I_o | 1.3 mA |
| C_o | 300 μ F |
| L_o | 100 mH |

Current Input:**Power Output Terminal T1 w.r.t. T2**

| | |
|-----------|-----------------------------------|
| U_o | = U_i (power supply connection) |
| I_o | * |
| P_o | * |
| C_o | * |
| L_o | * |
| L_o/R_o | * |

Note: parameters marked * are obtained from the certification documents of the power supply connected

Input Terminal T2 w.r.t. T3 or T4

| | |
|-------|--------|
| U_i | 16.5 V |
| C_i | 120 nF |
| L_i | 0 |

| | |
|-------|-------------|
| U_o | 6.51 V |
| I_o | 1.3 mA |
| C_o | 300 μ F |
| L_o | 100 mH |

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Temperature Input:**Power Output Terminal T1 w.r.t. T2, T3 or T4**

| | |
|-----------|-----------------------------------|
| U_o | = U_i (power supply connection) |
| I_o | * |
| P_o | * |
| C_o | * |
| L_o | * |
| L_o/R_o | * |

Note: parameters marked * are obtained from the certification documents of the power supply connected

Input Terminal T2 w.r.t. T3 or T4

| | |
|-------|--------|
| U_i | 16.5 V |
| C_i | 120 nF |
| L_i | 0 |

| | |
|-------|-------------|
| U_o | 6.51 V |
| I_o | 1.3 mA |
| C_o | 100 μ F |
| L_o | 100 mH |

Digital Input Module Connections

This module can be configured as either of two versions, digital and vortex :

Digital Input:**Power Output Terminal T1 w.r.t. T4**

| | |
|-----------|-----------------------|
| U_o | 16.5 V |
| I_o | 40 mA |
| P_o | 163 mW |
| C_o | 5 μ F |
| L_o | 5 mH |
| L_o/R_o | 100 μ H/ Ω |

| | |
|-------|-----|
| U_i | 0 V |
|-------|-----|

Input Terminals T2, T3

| | |
|-------|--------|
| U_i | 16.5 V |
| C_i | 0 |
| L_i | 0 |

| | |
|-------|-------------|
| U_o | 6.51 V |
| I_o | 16 mA |
| C_o | 100 μ F |
| L_o | 100 mH |

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Vortex Input:**Power Output Terminal T1 w.r.t. T4**

| | |
|--------------------------------|----------|
| U _o | 6.51 V |
| I _o | 40 mA |
| P _o | 153 mW |
| C _o | 100 µF |
| L _o | 26 mH |
| L _o /R _o | 240 µH/Ω |

Input Terminals T2, T3

| | |
|----------------|--------|
| U _i | 16.5 V |
| C _i | 0 |
| L _i | 0 |

| | |
|----------------|--------|
| U _o | 6.51 V |
| I _o | 7 mA |
| C _o | 100 µF |
| L _o | 100 mH |

Digital Input (Failsafe) Module Connections**Power Output Terminals T1 or T3 w.r.t. T2 or T4**

| | |
|----------------|---------|
| U _o | 12.51 V |
| I _o | 3.4 mA |
| P _o | 10.5 mW |
| C _o | 5 µF |
| L _o | 10 mH |

| | |
|----------------|-----|
| U _i | 0 V |
|----------------|-----|

Input Terminals T2, T4

| | |
|----------------|--------|
| U _i | 16.5 V |
| C _i | 12 nF |
| L _i | 0 |

| | |
|----------------|--------|
| U _o | 6.51 V |
| I _o | 3.6 mA |
| C _o | 100 µF |
| L _o | 100 mH |

AC (rms) Analogue Input Module Connections**Power output Terminal T1 w.r.t. T4**

| | |
|--------------------------------|--|
| U _o | = U _i (power supply connection) |
| I _o | * |
| P _o | * |
| C _o | * |
| L _o | * |
| L _o /R _o | * |

Loop power Output Terminal T2 w.r.t. T3 or T4

| | |
|----------------|--------|
| U _i | 16.5 V |
| C _i | 12 nF |
| L _i | 0 |

| | |
|----------------|--|
| U _o | = U _i (power supply connection) |
| I _o | 121 mA at U _i = 16.5 V |
| P _o | 497 mW at U _i = 16.5 V |
| C _o | * |
| L _o | 30 mH |

Note: parameters marked * are obtained from the certification documents of the power supply connected

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Thermocouple Input Module Connections**Power output Terminal T1 w.r.t. T4**

| | |
|-----------|-----------------------------------|
| U_o | = U_i (power supply connection) |
| I_o | * |
| P_o | * |
| C_o | * |
| L_o | * |
| L_o/R_o | * |

Note: parameters marked * are obtained from the certification documents of the power supply connected

Input Terminals T2, T3 w.r.t. T4

| | | | |
|-------|--------|-------|-------------|
| U_i | 6.88 V | U_o | 6.51 V |
| C_i | 0 | I_o | 16 mA |
| L_i | 0 | C_o | 100 μ F |
| | | L_o | 100 mH |

Strain Gauge Input Module Connections**Power Output Terminal T1 w.r.t. T4**

| | |
|-----------|-----------------------------------|
| U_o | = U_i (power supply connection) |
| I_o | 129 mA at $U_i = 16.5$ V |
| P_o | 0.53 W at $U_i = 16.5$ V |
| C_o | * |
| L_o | * |
| L_o/R_o | * |

Note: parameters marked * are obtained from the certification drawings of the power supply connected

Input Terminals T2, T3 w.r.t. T4

| | | | |
|-------|--------|-------|-------------|
| U_i | 16.5 V | U_o | 6.88 V |
| P_i | 0.53 W | I_o | 21 mA |
| C_i | 10 nF | C_o | 100 μ F |
| L_i | 0 | L_o | 100 mH |

Flow Sensor Input Module Connections**Power Output Terminal T1 w.r.t. T4**

| | |
|-----------|------------------------|
| U_o | 7.14 V |
| I_o | 131 mA |
| P_o | 234 mW |
| C_o | 100 μ F |
| L_o | 10 mH |
| L_o/R_o | 1834 μ H/ Ω |

Input Terminal T2 w.r.t. T4

| | | | |
|-------|--------|-------|-------------|
| U_i | 7.14 V | U_o | 6.88 V |
| C_i | 1.1 nF | I_o | 3.3 mA |
| L_i | 0 | C_o | 100 μ F |
| | | L_o | 100 mH |

Input Terminal T3 w.r.t. T4

| | | | |
|-------|--------|-------|-------------|
| U_i | 16.5 V | U_o | 6.88 V |
| C_i | 1.1 nF | I_o | 3.3 mA |
| L_i | 0 | C_o | 100 μ F |
| | | L_o | 100 mH |

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

RS485 Comms Connections**Terminals B2, B3 w.r.t. B1**

| | |
|-----------|-----------------------|
| U_o | 6.88 V |
| I_o | 154 mA |
| P_o | 265 mW |
| C_o | 10 μ F |
| L_o | 4 mH |
| L_o/R_o | 139 μ H/ Ω |

| | |
|-------|--------|
| U_i | 12 V |
| P_i | 1.41 W |
| C_i | 0 |
| L_i | 0 |

Up to 6 RS485 Comms Modules (in separate Programmable Sensor Controllers type TX9042) may be daisy-chained together (i.e. terminals B1 all linked together, terminals B2 all linked together and terminals B3 all linked together). Provided that the number of daisy-chained PSC's is reduced to 5, these comms lines may be connected to unspecified safe area equipment via an appropriately certified shunt zener diode safety barrier (dual channel a.c.), whose output parameters do not exceed the following per channel:

$$U_o = 9 \text{ V}, I_o = 100 \text{ mA}, P_o = 225 \text{ mW}$$

OR $U_o = 12 \text{ V}, I_o = 80 \text{ mA}, P_o = 240 \text{ mW}$

e.g. suitably certified MTL 761, MTL766, MTL7761ac, MTL7766ac.

The cable parameters shall not exceed the following: $C_c = 2.8 \mu\text{F}$, $L_c/R_c = 222 \mu\text{H}/\Omega$

Digital Comms Connections**Terminal B3, B4, B6 w.r.t. B1**

| | |
|-----------|--------------------------------|
| U_o | 6.88 V |
| I_o | 3.2 A pk (340 mA long term) |
| P_o | 2.34 W |
| C_o | 100 μ F |
| L_o | 100 μ H |
| L_o/R_o | 139 μ H/ Ω |

| | |
|-------|--------|
| U_i | 6.88 V |
| P_i | 0.34 W |

Relay Output Connections

The relay contacts must only be connected to an IS circuit which is powered by the same IS Power Supply as the TX9042.

$$U_i = 16.5 \text{ V}$$

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Additional Information:

None

Variations Permitted by this Issue

Modifications have been made to the Programmable Sensor Controller Type 9042 to include the following:

- Use of an alternative component (U105 Real Time Clock) to the Control PCB
- Minor error fixed to the Control PCB schematic

This has been assessed for compliance in Baseefa test report GB/BAS/ExTR17.0194/00.

Manufacturer's Documents associated with this Issue:

| Document Number | Pages / Sheets | Document Title | Revision | Date |
|----------------------|----------------|---------------------------------------|----------|-------------|
| P5423.01.ATEX.IECEx | 2 | Control PCB Certified Circuit Diagram | A | 26 Jun 2017 |
| P5423.300.ATEX.IECEx | 1 | Schematic RTC Adaptor | A | 26 Jun 2017 |
| P5423.301.ATEX.IECEx | 1 | PCB, RTC Adaptor | A | 26 Jun 2017 |

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

History of Issues and Variations

Issue 0 dated 21 Dec 2006

Manufacturer's Documents associated with Issue 0:

| Document Number | Pages / Sheets | Document Title | Revision | Date |
|-----------------|----------------|--|-----------|-------------|
| P5423.02 | 1 | General Arrangement | I | 10 Apr 2003 |
| P5093.27 | 1 | Reed Relay | C | 21 Jan 1997 |
| P5423.09 | 1 | Power Supply PCB Certified Circuit Diagram | E Salvage | 02 Dec.2003 |
| P5423.09 | 2 | Power Supply PCB Certified Circuit Diagram | F | 07 Nov 2003 |
| P5423.06 | 1 | Power Supply PCB Artwork | E | 21 Nov 2002 |
| P5423-547 | 1 | P5423.06 Issue E PCB Salvage Modifications | B | 02 Dec.2003 |
| P5423.01 | 2 | Control PCB Certified Circuit Diagram | D | 22 Jan 2003 |
| P5423.03 | 1 | Control PCB Artwork | C | 18 Apr 1997 |
| P5423.08 | 1 | Display PCB Certified Circuit Diagram | A | 02 Jul 1996 |
| P5423.05 | 1 | Display PCB Artwork | A | 08 May 1996 |
| P5423.47 | 1 | Battery PCB Certified Circuit Diagram | B | 05 Sep 2002 |
| P5423.29 | 1 | Battery PCB Artwork | C | 22 Jul 2002 |
| P5423.46 | 1 | Digital Comms PCB Certified Circuit Diagram | B | 05 Sep 2002 |
| P5423.28 | 1 | Digital Comms PCB Artwork | A | 08 May 1996 |
| P5423.45 | 1 | RS485 Comms PCB Certified Circuit Diagram | D | 22 Jan 2003 |
| P5423.254 | 1 | RS485 Comms PCB Artwork | D | 10 Jun 2003 |
| P5423-550 | 1 | P5423.254 issue D PCB Salvage Modifications | A | 11 Nov 2003 |
| P5423.07 | 1 | Input PCB Certified Circuit Diagram | C | 22 Jan 2003 |
| P5423.04 | 1 | Input PCB Artwork | C | 22 Jul 2002 |
| P5423.42 | 2 | Digital Input Module Certified Circuit Diagram | C | 06 Sep 2003 |
| P5423.22 | 1 | Digital Input Module PCB Artwork | D | 01 Jun 2003 |
| P5423-549 | 1 | P5423.22 Issue C PCB Salvage Modifications | A | 11 Nov 2003 |
| P5423.139 | 2 | Digital Input (Fail Safe) Module Certified Circuit Diagram | B | 12 Jun 2003 |
| P5423.135 | 1 | Fail Safe Digital Input Module PCB Artwork | B | 22 Jul 2002 |
| P5423.41 | 2 | DC Analogue Input Module Certified Circuit Diagram | B | 09 Jun 2003 |
| P5423.21 | 1 | DC Analogue Input Module PCB Artwork | B | 22 Jul 2002 |
| P5423.43 | 1 | AC (rms) Analogue Input Module PCB Certified Circuit Diagram | E | 22 Jan 2003 |
| P5423.23 | 1 | AC (rms) Analogue Input Module PCB Artwork | F | 01 Jun 2003 |

Certificate of Conformity

Ex EQUIPMENT

| | | | | |
|--|---|---|---------------------------------|-------------|
| Certificate No.: ANZEx 06.3057X | | Current Issue: 5 | Date of Issue: 23 February 2018 | |
| P5423-548 | 1 | P5423.23 Issue E PCB Salvage Modifications | A | 11 Nov 2003 |
| P5423.248 | 2 | Thermocouple Input Module Certified Circuit Diagram | B | 03 Jun 2003 |
| P5423.25 | 1 | Thermocouple Input Module PCB Artwork | B | 14 Jun 2003 |
| P5423.178 | 2 | Flow Sensor Input Module Certified Circuit Diagram | B | 01 Apr 2003 |
| P5423.179 | 1 | Flow Sensor Input Module PCB Artwork | B | 09 Jun 2003 |
| P5423.138 | 2 | Strain Gauge Input Module Certified Circuit Diagram | C | 10 Jun 2003 |
| P5423.131 | 1 | Strain Gauge Input Module PCB Artwork | C | 22 Jul 2002 |
| P5423.545 | 1 | Certification Label Details Australian | B | 15 Dec 2006 |

Issue 1 dated 14 Jun 2007

Variations Permitted by Issue 1

Option of fitting an alternative relay in the potted relay module. This optional relay has exactly the same operating coil and protection diodes, with the only difference being that it uses a reed that is normally open only (instead of the change over type used previously). This reed is capable of carrying a higher current of 1A (instead of the 250 mA used previously).

This minor change does not affect the intrinsic safety assessment provided in the earlier report Baseefa 03(C)0683 held in TestSafe file 2003/022220

Manufacturer's Documents associated with the Issue 1:

| Document Number | Pages / Sheets | Document Title | Revision | Date |
|-----------------|----------------|----------------|----------|-------------|
| P5093.27.01 | 1 | Reed Relay | A | 14 Mar 2007 |

Issue 2 dated 04 Dec 2007

Variations Permitted by Issue 2

Modifications have been made to the design of the power supply module within the Programmable Sensor Controllers type TX9042. Test report Baseefa 06(C)0985 provides the compliance assessment of this change.

Option of fitting an alternative LCD 'Plus Opto EW20400YLY' in the Display PCB. Test report 29704 provides the compliance assessment of this change.

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Manufacturer's Documents associated with the Issue 2:

| Document Number | Pages / Sheets | Document Title | Revision | Date |
|-----------------|----------------|--|----------|-------------|
| P5423.06 | 1 | PCB, Power Supply | J | 19 Sep 2006 |
| P5423.08 | 1 | Display PCB Certified Circuit Diagram | B | 31 Oct 2007 |
| P5423.09 | 2 | Certified Circuit Diagram Power Supply PCB | J | 27 Feb 2007 |

Issue 3 dated 14 Mar 2012*Variations Permitted by Issue 3*

Modifications have been made to the Programmable Sensor Controller Type 9042 to include the following:

- Use of an alternative Flow Sensor Input Module (Rosemount) for use with Rosemount Pressure Sensor
- Alternative Control PCB (P5423.01 Iss E or Iss F)
- Alternative LCD Module
- Alternative diode type on Battery PCB
- Correction to Digital Input Module U_o value

These modifications have been addressed in test reports Baseefa 05(C)0460 and 10(C)0863 and 12(C)0126.

Conditions of Certification pertaining to Issue 3 of this certificate:

It is a condition of safe use that, in addition to the parameters provided in the earlier issue of the certificate, the following parameters shall be taken into account during installation:

Alternative Flow Sensor Input Module (Rosemount) for use with Rosemount Pressure Sensor 3051S**Power Output Terminal T1 w.r.t. T2, T3, T4**

| | |
|-----------|-----------------------|
| U_o | 16.5 V |
| I_o | 242 mA |
| P_o | 1 W |
| C_o | 6.9 μ F |
| L_o | 4.4 mH |
| L_o/R_o | 468 μ H/ Ω |

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 06.3057X**

Current Issue: 5

Date of Issue: 23 February 2018

Manufacturer's Documents associated with the Issue 3:

| Document Number | Pages / Sheets | Document Title | Revision | Date |
|-----------------|----------------|--|----------|-------------|
| P5423.01 | 2 | Control PCB Certified Circuit Diagram | E | 13 Jul 2011 |
| P5423.01 | 2 | Control PCB Certified Circuit Diagram | F | 14 Jul 2011 |
| P5423.02 | 1 | General Arrangement | J | 04 Jul 2011 |
| P5423.03 | 1 | Control PCB Artwork | D | 06 My 2011 |
| P5423.08 | 1 | Display PCB Certified Circuit Diagram | C | 23 May 2011 |
| P5423.47 | 1 | Battery PCB Certified Circuit Diagram | C | 14 Dec 2011 |
| P5423.554 | 1 | Flow Sensor Input Module (Rosemount) PCB Artwork | A | 28 Jul 2005 |
| P5423.555 | 2 | Certified Circuit Diagram Flow Sensor Input Module For Rosemount DP Sensor | A | 02 Aug 2005 |

Issue 4 dated 06 Nov 2012*Variations Permitted by Issue 4*

There are no changes to the design of the equipment.

The Relay connection parameters have been revised as provided below. The earlier restriction that the relay contacts must only be connected to an IS circuit which is powered by the same IS Power Supply as the TX9042 has been removed, and the $U_i = 16.5V$ has now increased to 23V.

These changes have been addressed in test report 33925.

Conditions of Certification pertaining to Issue 4 of this certificate:

The Relay connection parameters have been revised to:

Relay Output Connections

$U_i = 23V$