

Australian/New Zealand
Certification Scheme for

EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT

ANZEx Scheme

Certificate of Conformity

Certificate No.: ANZEx 06.3055X

Issue Number: 0

Date of Issue: 15/12/2006

Certificate Holder: ABB Automation Products GmbH
Schillerstrasse 72
D-32425 Minden GERMANY

Electrical Apparatus: 2600T Pressure Transmitter
Models 265../267../269..
Communication protocol: HART

Type of Protection: Ex ia and Ex n

Marking Code: Ex ia IIC T4 ($P_i \leq 0.8$ W $T_a = 85$ °C) / T6 ($P_i \leq 0.7$ W $T_a = 40$ °C)
Ex n IIC T4 ($T_a = 85$ °C) / T6 ($T_a = 40$ °C)
IP66

Manufacturing Location(s): ABB Automation Products GmbH
Schillerstrasse 72
D-32425 Minden GERMANY

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>Test Safe AUSTRALIA</p> <p>ABN 94 084 639 032</p>	<p>Certificate issued by:</p> <p>TestSafe Australia 919 Londonderry Road, Londonderry NSW 2753 Australia</p> <p>Phone: +61 2 4724 4900 Fax: +61 2 4724 4999</p> <p>http://www.testsafe.com.au</p>	 <p>JAS-ANZ</p> <p>Accreditation by the Joint Accreditation System of Australia and New Zealand</p> <p>Acc No. Z2221100AS</p>
--	---	--

Australian/New Zealand
Certification Scheme for

EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT

ANZEx Scheme

Certificate of Conformity

Certificate No.: ANZEx 06.3055X

Issue Number: 0

Date of Issue: 15/12/2006

This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication MP87:2004.

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 60079.11:2000 Electrical apparatus for explosive gas atmospheres Part 11: Intrinsic safety "i"
- AS 2380.1-1989 Electrical equipment for explosive atmospheres – Explosion-protection techniques Part 1: General requirements
- AS 2380.9-1991 Electrical equipment for explosive atmospheres – Explosion-protection techniques Part 9: Type of protection n – Non-sparking

*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: TestSafe 26763 in TestSafe 2004/001677-01
Quality Assessment Report No. and Issuing Body: IECEX QAR TUN 04.0005

File Reference: 2006/030419



Signed for and on behalf of issuing body

Quality & Certification Manager

Position

15/12/2006

Date of Issue

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 06.3055X

Issue Number: 0

Date of Issue: 15/12/2006

Schedule

EQUIPMENT: The Pressure Transmitter 2600T series considered in the scope of this certificate is used for measuring and converting physical values like pressure and differential pressure into an analogue electrical standard signal of a 4-20 mA current loop and digital communications according to HART protocol. It may contain an optional LCD display within the enclosure, or an output meter connected to the field terminal block. This latter option is not within the scope of this certificate. An optional multivariable board allows measurement of temperature using an externally connected temperature sensor.

The transmitter has a main enclosure provided with two end caps. Three different shapes are available for the main enclosure – EU-p, EU-dp, US. They are available in alloy or stainless steel materials. The main enclosure contains a terminal board located in the connection area, with a blind end cap. The main enclosure also contains a main board and optional display board in the electronic area, with a blind or windowed cap.

The transducer assembly is screwed to the main enclosure. This assembly contains a characterisation board connected to but isolated from the capacitive or piezo-electric pressure sensing element by cemented joint or feed-throughs. The sensing element itself is connected to the process pipes during the installation.

The transducer varies in shape. The transducers have the following pressure sensors with associated characterisation boards:

- p-cap
- p-piezo
- dp-cap
- dp-piezo
- hp-piezo

**Australian/New Zealand
Certification Scheme for**

EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT

ANZEx Scheme

Certificate of Conformity

Certificate No.: **ANZEx 06.3055X**

Issue Number: 0

Date of Issue: **15/12/2006**

CONDITIONS OF CERTIFICATION:

At the connection terminals of the apparatus, the following parameters shall be taken into account for intrinsic safety installations:

Input parameters	At the terminals marked SIGNAL +, -
Maximum input voltage U_i	30 V
Maximum input current I_i	200 mA
Maximum input power P_i	0.8 W (T4 at Tamb 85 °C), or 0.7 W (T6 at Tamb 40 °C)
Maximum input capacitance C_i	52 nF
Maximum input inductance L_i	0 mH

For the multivariable option, where temperature sensor has to be connected to the apparatus, in addition to the above, the following parameters shall be taken into account:

Output parameters	At the terminals marked X11, X12, X13, X14
Maximum output voltage U_o	10.6 V
Maximum output current I_o	1.5 mA
Maximum output power P_o	4 mW
Maximum external capacitance C_o	2.3 μ F
Maximum external inductance L_o	1 H

For Ex n installations, the maximum voltage will be 30 V

Australian/New Zealand
Certification Scheme for

EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT

ANZEx Scheme

Certificate of Conformity

Certificate No.: ANZEx 06.3055X

Issue Number: 0

Date of Issue: 15/12/2006

DOCUMENTS:

Document Number	Document Title	Revision	Date
V15712 X180 (1)	Characterization-Board p-piezo	1	14/11/2003
V15712 X181 (1)	Characterization-Board dp-piezo	1	17/11/2003
V15712 X182 (1)	Characterization-Board p-cap	1	17/11/2003
V15712 X183 (1)	Characterization-Board dp-cap	1	17/11/2003
V15712 X184 (1)	Characterization-Board hp-piezo	1	17/11/2003
V15712 X185 (2)	Temp.-Board Multivariable	1	17/11/2003
V15712 X186 (2)	LCD - Display	1	17/11/2003
V15712 X187 (2)	Connection Board HART	1	17/11/2003
V15712 X188 (1)	Main-Board HART	2	25/08/2005
V15712 X188 (1)	Main-Board HART	3	21/10/2005
V15712 X192 (1)	Transmitter 2600T	1	25/08/2005
V15712 X194 (3)	Block Diagram 2600T HART	1	20/11/2003
V15712 X213 (4)	ANZEx Label Ex i / Ex n, HART	1	11/12/2006