



# Certificate of Compliance

**Certificate:** 1135292

**Master Contract:** 203012

**Project:** 2205569

**Date Issued:** 2009/08/11

**Issued to:** ABB Automation Products GmbH

72 Schillerstrasse

Minden, 32425

Germany

Attention: Friedrich Lehnert

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



*Richard Dibler Jr.*

**Issued by:** Richard Dibler Jr.

## **PRODUCTS**

**CLASS 2258 02** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

**CLASS 2258 82** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations -  
Certified to US Standards

Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1; Enclosure Type 4X;

- Model MV 2010TA, Absolute Pressure Transmitter, P/N V15713xxxxxxx5AD; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model MV 2010TD, Differential Pressure Transmitter, P/N V15712xxxxxxx5AD; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model MV 2020TA, Absolute Pressure Transmitter, P/N V15754xMxxxx5AD and P/N V15754xOxxxx5AD; input supply 42 Vdc max, 4-20mA; MWP up to 9000 psi (600 bar); Max. Ambient 75 Deg. C.

- Model MV 2020TG, Gage Pressure Transmitter, P/N V15753xDxxxx5AG and P/N V15753xFxxxx5AG; input supply 42 Vdc max, 4-20mA; MWP up to 450 psi (30 bar); Max. Ambient 75 Deg. C.

- Model MV 2020TG, Gage Pressure Transmitter, P/N V15753xGxxxx5AD and P/N V15753xHxxxx5AD; input supply 42 Vdc max, 4-20mA; MWP up to 9000 psi (600 bar); Max. Ambient 75 Deg. C.



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- Model MV 2010TC, Multivariable Pressure Transmitter, P/N V15714xxxxxxxx5AD; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Absolute Pressure Transmitter, P/N 26xAxxxxxxxxxxxxxxxxx; input supply 42 Vdc max, 4-20mA; MWP up to 9000 psi (600 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Differential Pressure Transmitter, P/N 26xBxxxxxxxxxxxxxxxxx; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Multivariable Pressure Transmitter, P/N 26xCxxxxxxxxxxxxxxxxx; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Differential Pressure Transmitter, P/N 26xDxxxxxxxxxxxxxxxxx; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Differential Pressure Transmitter, P/N 26xJxxxxxxxxxxxxxxxxx; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Gage Pressure Transmitter, P/N 26xGxxxxxxxxxxxxxxxxx; input supply 42 Vdc max, 4-20mA; MWP up to 9000 psi (600 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Differential/Absolute Pressure Transmitter, P/N 26xVxxxxxxxxxxxxxxxxx; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

**Notes:**

1. The "x" 's in the Part Number (P/N) denote variations in electrical and mechanical construction.
2. The "4-20 mA" rating applies to HART versions. For FF, Profibus and Modbus versions, communication is Digital.

Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1; Enclosure Type 4X:

- Model MV 2020TG, Gage Pressure Transmitter, P/N V15753xDxxxxx5AD and P/N V15753xFxxx5AD; input supply 42 Vdc max, 4-20mA; MWP up to 450 psi (30 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Gage Pressure Transmitter, P/N 26xGxDxxxxxxxxxxxxxxxx, 26xGxLxxxxxxxxxxxxxxxx and 26xGxUxxxxxxxxxxxxxxxx; input supply 42 Vdc max, 4-20mA; MWP up to 450 psi (30 bar); Max. Ambient 75 Deg. C.

**Notes:**

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2. The "4-20 mA" rating applies to HART versions. For FF, Profibus and Modbus versions, communication is Digital.

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**CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations – Certified to US Standards**

Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1; Enclosure Type 4X

Class I, Div. 2, Groups A, B, C and D:

- Model 2600 Series, Absolute Pressure Transmitter, P/N 26xAxxxxxxxxxxxxxxxxx w/suffix EM; input supply 42 Vdc max, 4-20mA; MWP up to 9000 psi (600 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Differential Pressure Transmitter, P/N 26xBxxxxxxxxxxxxxxxxx w/suffix EM; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Multivariable Pressure Transmitter, P/N 26xCxxxxxxxxxxxxxxxxx w/suffix EM; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Differential Pressure Transmitter, P/N 26xDxxxxxxxxxxxxxxxxx w/suffix EM; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Differential Pressure Transmitter, P/N 26xJxxxxxxxxxxxxxxxxx w/suffix EM; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Gage Pressure Transmitter, P/N 26xGxxxxxxxxxxxxxxxxx w/suffix EM; input supply 42 Vdc max, 4-20mA; MWP up to 9000 psi (600 bar); Max. Ambient 75 Deg. C.

- Model 2600 Series, Differential/Absolute Pressure Transmitter, P/N 26xVxxxxxxxxxxxxxxxxx w/suffix EM; input supply 42 Vdc max, 4-20mA; MWP up to 6000 psi (410 bar); Max. Ambient 75 Deg. C.

**Notes:**

1. The "x" 's in the Part Number (P/N) denote variations in electrical and mechanical construction.
2. The "4-20 mA" rating applies to HART versions. For FF, Profibus and Modbus versions, communication is Digital.
3. For FF and Profibus, input supply 32 Vdc max. For Modbus, input supply 30 Vdc max.

Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1; Enclosure Type 4X:

Class I, Div. 2, Groups A, B, C and D:

- Model 2600 Series, Gage Pressure Transmitter, P/N 26xGxDxxxxxxxxxxxxxxxx, 26xGxLxxxxxxxxxxxxxxxx w/suffix EM and 26xGxUxxxxxxxxxxxxxxxx w/suffix EM; input supply 42 Vdc max, 4-20mA; MWP up to 450 psi (30 bar); Max. Ambient 75 Deg. C.

**Notes:**



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3. For FF and Profibus, input supply 32 Vdc max. For Modbus, input supply 30 Vdc max.

#### **APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-M91 - General Requirements – Canadian Electrical Code, Part II

C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations

C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CAN/CSA-C22.2 No. 94-M91 - Special Purpose Enclosures

C22.2 No. 142-M1987 - Process Control Equipment

C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

FM 3600 - 1989 - Electrical Equipment for use in Hazardous (Classified) Locations – General Requirements

FM 3810 -1989 - Electrical and Electronic Test, Measuring, and Process Control Equipment

FM 3611 - 2004 - Nonincendive Electrical Equipment for Use in Class I and II, Division 2, and Class II, Divisions 1 and 2, Hazardous (Classified) Locations

FM 3615 - 2006 - Explosionproof Electrical Equipment – General Requirements

ANSI/NEMA 250 - 1991 - Enclosures for Electrical Equipment

#### **MARKINGS**

Markings appear on a min 0.02 in thick metal nameplate, secured to the enclosure with screws, mounted in bottomed holes. Alternatively, markings may appear on a CSA Accepted Adhesive-type nameplate, manufactured by 3M, P/N Scotchcal 3698 ED. Note: Models marked with the C US indicators are only fitted with metal nameplates..

Warning statement : "Keep cover tight when circuits alive" is moulded into the enclosure cover.

The following marking details appear:

- CSA Monogram;
- Company name;
- Model number;
- Serial number;



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- Electrical rating;
- Hazardous locations designation, and the words "Not including Ether Atmospheres"
- Temperature Code
- Special purpose enclosure designation, "TYPE 4X";
- Maximum ambient;
- Maximum working Pressure (MWP)
- Caution re keeping cover tight while circuits are live (etched onto face of enclosure cover);
- Caution: "Warning - Substitution of components may impair suitability for Class I, Division 2."
- Statement: Seal not Required or No Seal Required (applicable for models without C US marking)
- Statement: Seal all conduits within 18 inches (applicable for 2600.....EM models marked with C US only)

*Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".*



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2205569	2009/08/11	Update to Report 1135292 to include updated revs to drawings.
1968451	2007/10/24	Update to cover minor changes to pressure transmitter circuitry & probes.
1840897	2006/10/12	Update to cover an alternative process connection design, and minor change to the Connection Board. Change in model code from 2600T to 2600 Series.
1637924	2005/02/24	Update to include Division 2 and C US for 2600T Series

### **History**

1414468 March 3, 2003 Update to cover alternative Modbus Connection Board, additional model coding and modifications to report text.

1135292 June 24, 2002 Original Certification - Models MV 2020TA, MV 2020TC, MV 2010TD and MV 2020TG Pressure Transmitters; and Model 2600T Series Pressure Transmitters.