





**Certificate:** 1053834  
**Project:** 70093423

**Master Contract:** 155387  
**Date Issued:** 2017-03-29

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

**Class I, Division 1, Groups B, C and D, T5 (-50°C ≤ T<sub>a</sub> ≤ 85°C); \*Ex d IIC T5 (-50°C ≤ T<sub>a</sub> ≤ 85°C); Factory Sealed**

**Class II, Division 1, Groups E, F and G, T5 (-50°C ≤ T<sub>a</sub> ≤ 85°C); Class III, Class I, Division 2, Groups A, B, C and D, T5 (-50°C ≤ T<sub>a</sub> ≤ 85°C)**

**Part A**

Pressure Transmitters Models 3051C, 3051L, 3051T, 3051G and 50-4300A, rated 42.4V dc max, 4-20mA, 1 to 5V or 30mA Fieldbus output or Hart digital 1-5V dc low power output (Model 3051 only), with or without integral LCD meter. May have suffix J9; Single Seal; MWP 4500 psig (3051T Rng 1-4: MWP 4000 psig; 3051T Rng 5: MWP 10,000 psig, 3051T Rng 6: MWP 20,000 psig). Enclosure Type 4x; Single Seal

Pressure Transmitter, Models PX751C, PX751H, PX751P, PX751T, 4 to 20mA or 1 to 5V, 42.4V max, with or without integral LCD meter; Single Seal (Note: PX751C, PX751H, PX751P: MWP 4500 psig; PX751T Rng 1-4: 4000 psig; PX751T Rng 5: 10,000 psig.)

Note –

- 1/ “\*” Ex d IIC T5 evaluation only applies to the “Enhanced” enclosure on pressure transmitters model 3051C, 3051L, and 3051T.
- 2/ The above transmitters as per the CEC may include the marking Class I, Zone 1, Group IIB + H2 and Class I, Zone 2, Group IIC hazardous areas.
- 3/ See control drawing 03031-1053 for Process Temperature ranges
- 4/ Coplanar transmitters with “P0” option are not Single Seal certified. Process seal required.

**Part B**

**XP Class I, Division 1, Groups B, C and D, T5 (-50°C ≤ T<sub>a</sub> ≤ 85°C); \*Ex d IIC T5 (-50°C ≤ T<sub>a</sub> ≤ 85°C); Factory Sealed**

**DIP Class II, Division 1, Groups E, F and G, T5 (-50°C ≤ T<sub>a</sub> ≤ 85°C); Class III Class I, Division 2, Groups A, B, C and D; T5 (-50°C ≤ T<sub>a</sub> ≤ 85°C)**

Flowmeter models 3051CFA, 3051CFC and 3051CFP, rated 42.4V dc max, 4-20mA, 1 to 5V or 30mA Fieldbus output or Hart digital 1-5V dc low power output, with or without integral LCD meter; MWP as per Part A above; Encl. Type 4X; Single Seal.

Note –

- 1/ “\*” Ex d IIC T5 evaluation only applies to the “Enhanced” enclosure on pressure transmitters model 3051C, 3051L, and 3051T.
- 2/ Refer to Part A above for notes pertaining to transmitter 3051 MWP and process temperature ranges.
- 3/ The above transmitters as per the CEC may include the marking Class I, Zone 1, Group IIB + H2 and Class I, Zone 2, Group IIC hazardous areas.



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

**Part A**

**XP Class I, Division 1, Groups B, C, and D, T5, (-50°C ≤ Ta ≤ 85°C)**  
**DIP Class II, Division 1, Groups E, F, and G, T5, (-50°C ≤ Ta ≤ 85°C); Class III**  
**NI Class I, Division 2, Groups A, B, C, and D; NIFW**  
**HART: T4 (-60°C ≤ Ta ≤ 70°C); T5 (-60°C ≤ Ta ≤ 40°C)**  
**Fieldbus/PROFIBUS: T4 (-60°C ≤ Ta ≤ 60°C);**

Pressure Transmitters Models 3051C, 3051L, 3051T, 3051G and 50-4300A, rated 42.4V dc max, 4-20mA, 1 to 5V or 30mA Fieldbus output or Hart digital 1-5V dc low power output (Model 3051 only), with or without integral LCD meter. May have suffix J9; Single Seal; MWP 4500 psig (3051T Rng 1-4: MWP 4000 psig; 3051T Rng 5: MWP 10,000 psig 3051T Rng 6: MWP 20,000 psig). Enclosure Type 4X; Single Seal.

Note –

- 1/ The above transmitters may include the marking Class I, Zone 1, Group IIB + H2 and Class I, Zone 2, Group IIC hazardous areas.
- 2/ See control drawing 03031-1053 for Process Temperature ranges
- 3/ Coplanar transmitters with “P0” option are not Single Seal certified. Process seal required.

**Part B**

**XP Class I, Division 1, Groups B, C, and D, T5, (-50°C ≤ Ta ≤ 85°C)**  
**DIP Class II, Division 1, Groups E, F, and G, T5, (-50°C ≤ Ta ≤ 85°C); Class III**  
**NI Class I, Division 2, Groups A, B, C, and D; NIFW**  
**HART: T4 (-60°C ≤ Ta ≤ 70°C); T5 (-60°C ≤ Ta ≤ 40°C)**  
**Fieldbus/PROFIBUS: T4 (-60°C ≤ Ta ≤ 60°C);**

Flowmeter models 3051CFA, 3051CFC and 3051CFP, rated 42.4V dc max, 4-20mA, 1 to 5V or 30mA Fieldbus output or Hart digital 1-5V dc low power output, with or without integral LCD meter; MWP as per Part A above; Encl. Type 4X; Single Seal.

Note –

- 1/ Refer to Part A above for notes pertaining to transmitter 3051 MWP and process temperature ranges.
- 2/ The above transmitters may include the marking Class I, Zone 1, Group IIB + H2 and Class I, Zone 2, Group IIC hazardous areas.

**CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations**

**CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations**

**Part A**

**Class I, II, III, Division 1, Groups A, B, C, D, E, F and G;**  
**HART: T4 (-60°C ≤ Ta ≤ 70°C);**  
**Fieldbus/PROFIBUS: T4 (-60°C ≤ Ta ≤ 60°C)**



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Pressure Transmitters Models 3051C, 3051L, 3051T, 3051G, 3051HT and 50-4300A, rated 42.4V dc max, 4-20mA, 1 to 5V or 30mA Fieldbus output or Hart digital 1-5V dc low power output (Model 3051 only), with or without integral LCD meter, intrinsically safe when connected per drawing 03031-1024 or ID-50-1836. May have suffix J9; Single Seal; MWP 4500 psig (3051T Rng 1-4: MWP 4000 psig; 3051T Rng 5: MWP 10,000 psig; 3051T Rng 6: MWP 20,000 psig). Enclosure Type 4x; Single Seal

Pressure Transmitter, Models PX751C, PX751H, PX751P, PX751T, 4 to 20mA or 1 to 5V, 42.4V max, with or without integral LCD meter, intrinsically safe when connected per drawing 03031-1024; Single Seal (Note: PX751C, PX751H, PX751P: MWP 4500 psig; PX751T Rng 1-4: MWP 4000 psig; PX751T Rng 5: MWP 10,000 psig)

Note –

- 1/ The above transmitters as per the CEC may include the marking Class I, Zone 0, Group IIC hazardous areas.
- 2/ See control drawing 03031-1053 for Process Temperature ranges
- 3/ Coplanar transmitters with “P0” option are not Single Seal certified. Process seal required

### **Part B**

**Class I, II, III, Division 1, Groups A, B, C, D, E, F, and G;**

**HART: T4 (-60°C ≤ Ta ≤ 70°C);**

**Fieldbus/PROFIBUS: T4 (-60°C ≤ Ta ≤ 60°C);**

Flowmeter models 3051CFA, 3051CFC and 3051CFP, rated 42.4V dc max, 4-20mA, 1 to 5V or 30mA Fieldbus output or Hart digital 1-5V dc low power output, with or without integral LCD meter, intrinsically safe when connected per drawing 03031-1024.

Note –

- 1/ Refer to Part A above for notes pertaining to transmitter 3051 MWP and process temperature ranges.
- 2/ The above transmitters as per the CEC may include the marking Class I, Zone 0, Group IIC hazardous areas.

**CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations – US**

**CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations – US**

### **Part A**

**Class I, II, III, Division 1, Groups A, B, C, D, E, F and G**

**HART: T4 (-60°C ≤ Ta ≤ 70°C); T5 (-60°C ≤ Ta ≤ 40°C)**

**Fieldbus/PROFIBUS: T4 (-60°C ≤ Ta ≤ 60°C)**

Pressure Transmitters Models 3051C, 3051L, 3051T, 3051G and 3051HT and 50-4300A, rated 42.4V dc max, 4-20mA, 1 to 5V or 30mA Fieldbus output or Hart digital 1-5V dc low power output (Model 3051 only), intrinsically safe when connected per drawing 03031-1024 or ID-50-1836. May have suffix J9; Single Seal

Note –

- 1/ The above transmitters may include the marking Class I, Zone 0, Group IIC hazardous areas.



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- 2/ See control drawing 03031-1053 for Process Temperature ranges  
3/ Coplanar transmitters with “P0” option are not Single Seal certified. Process seal required

### **Part B**

**Class I, II, III, Division 1, Groups A, B, C, D, E, F and G**  
**HART: T4 (-60°C ≤ Ta ≤ 70°C); T5 (-60°C ≤ Ta ≤ 40°C)**  
**Fieldbus/PROFIBUS: T4 (-60°C ≤ Ta ≤ 60°C)**

Flowmeter models 3051CFA, 3051CFC and 3051CFP, rated 42.4V dc max, 4-20mA, 1 to 5V or 30mA Fieldbus output or Hart digital 1-5V dc low power output, with or without integral LCD meter, intrinsically safe when connected per drawing 03031-1024.

Note –

- 1/ Refer to Part A above for notes pertaining to transmitter 3051 MWP and process temperature ranges.  
2/ The above transmitters may include the marking Class I, Zone 0, Group IIC hazardous areas.

### **APPLICABLE REQUIREMENTS**

#### **CSA Standards**

- |                             |   |
|-----------------------------|---|
| CAN/CSA C22.2 No. 0-10      | - General Requirements - Canadian Electrical Code, Part II  |
| CAN/CSA C22.2 No. 25-1966   | - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations   |
| CAN/CSA 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  |
| CAN/CSA C22.2 No. 142-M1987 | - Process Control Equipment   |
| CAN/CSA C22.2 No. 213-M1987 | - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations   |
| CAN/CSA C22.2 No. 157-92    | - Intrinsically safe and non-incendive equipment or use in hazardous locations  |
| CAN/CSA-E60079-0-07         | - Electrical Apparatus for Explosive Gas Atmospheres--Part 0: General Requirements  |
| CAN/CSA-E60079-1-07         | - Electrical Apparatus for Explosive Gas Atmospheres--Part 1: Construction and Verification Test of Flameproof Enclosures of Electrical Apparatus |
| CAN/CSA C22.2 No. 94.2-15   | - Enclosures for electrical equipment, environmental considerations   |

#### **FM Standards**

- |                |   |
|----------------|---|
| FM 3600 – 2011 | -Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements  |
| FM 3610- 2010  | -Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II & III, Division 1, Hazardous (Classified) Locations |
| FM3615 – 2006  | -Explosion proof Electrical Equipment General Requirements  |
| FM 3616 – 2011 | -Dust-Ignition proof Electrical Equipment General Requirements  |
| FM3810 – 2005  | -Electrical and Electronic Test, Measuring and Process Control Equipment  |



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**UL Standards**

UL 50E, 2<sup>nd</sup> Edition - Enclosures for Electrical Equipment, Non-Environmental Considerations

**Other Standards**

ANSI-ISA-12.27.01–2003 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids.  
ANSI/IEC 60529 - 2004 Degrees of Protection Provided by Enclosures (IP Code)

**MARKINGS**

Refer to certification report for complete details on marking.



## *Supplement to Certificate of Compliance*

**Certificate:** 1053834

**Master Contract:** 155387 (033332\_0\_000)

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

### **Product Certification History**

<b>Project</b>	<b>Date</b>	<b>Description</b>
70093423	2017-03-29	Possible update to report 1053834 to include the following 1) Addition of US markings based on FM test data and results 2) Minor drawing updates 3) Addition of 3051HT model 4) Addition of 3051T Range 6 (20 ,000psi)
70046744	2015-12-15	Possible update to Report 1053834 to include alternate construction changes and drawing updates with no testing involved . Additional funds will be required if any testing is deemed necessary.
70031321	2015-07-17	Update Report 1053834 for the model 3051 to include the alternate material of construction (Aluminum Alloy 365) based on information submitted under the category program.
2684963	2014-05-07	Update to certificate 1053834 to include minor revisions.
2632384	2013-06-14	Update certificate 1053834 to include alternate Zone Markings per Tech Note 76.
2586569	2013-03-14	Update to cover use of alternate Fieldbus Microboard.
2522747	2012-05-09	Alternate construction to cover updated layout of pc board and adding EMC shield to sensor module.
2430394	2011-10-13	Update to report 1053834 to include the new HART 7 pcb option, LCD display and update terminal block drawings
2451884	2011-10-13	Update to report 1053834 to replace drawings with latest revision and minor alternate construction.
2376304	2010-12-03	Update of report 1053834 to include cosmetic change to enclosure.
2281330	2010-03-09	Update of report 1053834 to include revised drawings and minor alternate construction.
2194062	2009-10-21	Update report 1053834 to include revised drawings not affecting certification.
2213820	2009-10-07	Update of report 1053834 for 3051 Transmitters to include additional Flow element types 3051CFA, CFC and CFP.
2094813	2009-06-02	Update to report 1053834 to cover minor alternate construction and updating of drawings.
2125728	2009-01-22	Update report 1053834 to include Single Seal markings for the Models



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		3051T and 3051C as per ANSI/ISA 12.27.01-2003 testing performed under category program.
1806295	2006-10-18	Alternate construction of model 3051 C/T enclosure and electronics
1669025	2005-05-09	Modification of the 3051 Low Power Board
1588564	2004-09-08	Alternate Construction of Micro Board 5
<b><u>History</u></b>		
1372906	2003-01-17	Update to Reports 1015441 and 1053834 to cover optional use of Hart 1-5Vdc Low power output.
1326075	2002-10-10	Update of Report 1053834 to cover few changes on the 3051C Model at microboard No. 5CCA.
1198888	2001-06-04	Update of Report 1015441 on 2088 and 1053834 on 3051C for revised sensor board.
1066125	1999-11-16	Update of Project 1053834 on 3051 to add I.S. Entity extended meter cover, Coplane Sensor Module and updates
1053834	1999-11-16	Supersedes Report LR 33332-186. ON 3051 to add "Omega" private labeling (Originally issued at 2500001477).
33332-293	1999-03-31	Update of Report LR 33332-186 to add Profibus output, charge in sensor module and updates.
33332-287	1999-01-26	Update of Report LR 33332-186 on Model 3051 to include I.S. fieldbus output option.
33332-281	1998-07-09	Update of Report LR 33332-186 on 3051 to add Fieldbus option (2 PCBS') for Exp/Div. 2 models.
33332-276	1998-01-27	Update of Report LR 33332-186 on 3051 to add new sensor module and updates.
33332-270	1997-06-04	Update of LR 33332-186 or 3051 to include redesigned micro board V and new sensor PCBs and updates.
33332-265	1997-03-06	Update of Report LR 33332-186 on Model 3051 to add Fieldbus option for explosion proof Division 2 models.
33332-262	1996-11-11	Update of Report LR33332-186 on 3051 to cover minor casting changes. Update of Report LR 33332-188 on 8800 to cover minor electronic changes and die cast material for alternate housing.
33332-260	1996-09-04	Update of Report LR 33332-186 on 3051 to include Suffix J9.
33332-239	1995-10-16	Update of Report LR 33332-186 to include Model 3051T and cover changes in construction.
33332-204	1994-04-12	Update of Report LR 33332-186 on 3051C to include all welded remote seal.





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33332-186      1994-02-07      Superseded by Project 155387\1053834.