



Member of the FM Global Group

FM Approvals  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

### **311albcdefg. Pressure Transmitter.**

IS / I / 1 / ABCD / T5 Ta = 85°C – 8C1-56.01-2; Entity

I / 0 AEx ia IIC / T5 Ta = 85°C – 8C1-56.01-2; Entity

$V_{max} = 30V$ ,  $I_{max} = 100mA$ ,  $C_i = 27.2nF$ ,  $L_i = 0$

Terminals (Output for isolate shunt Switch):

$V_{oc} = 5.9V$ ,  $I_{sc} = 6mA$ ,  $P_o = 8.85mW$ ,  $C_a = 40uF$ ,  $L_a = 1000mH$

a = Approvals: FM.

b = Accuracy: B, C or D.

c = Standard sensor ranges (psi): PJ, PL, PN, PP, PQ, PR, PS, PO, PT, PV, PX, PZ, RB, RD, RE, RF, RH, RJ, RK, RM, RO, RR, RS, RT, RV, RX, RZ, SB, SD, SF, SH or SK.

d = Pressure reference: 2, 3, 4, 6, 8, 9 or 10.

e = Alternate Connectors, (x where A – Z): Bx, Cx or Dx.

f = Alternate Pressure Ports, (x where A – B): Fx or Ix.

g = Options: GC, GD - 10X, GE, GG, GH, GJ, GK, GL, GP, GR, GY, HE, HX, JP, JS, JY, ME, NB, NC or An (where n = 1, 2, 3...).

### **370albcde. Pressure Transmitter.**

IS / I / 1 / ABCD / T5 Ta = 85°C – 8C1-56.00-2; Entity

I / 0 AEx ia IIC / T5 Ta = 85°C – 8C1-56.00-2; Entity

$V_{max} = 30V$ ,  $I_{max} = 100mA$ ,  $C_i = 27.2nF$ ,  $L_i = 0$

Terminals (Output for isolate shunt switch):

$V_{oc} = 5.9V$ ,  $I_{sc} = 6mA$ ,  $P_o = 8.85mW$ ,  $C_a = 40uF$ ,  $L_a = 1000mH$

a = Approvals: FM

b = Sensors: A, B, C, D, E or F.

c = Standard sensor ranges: RV, RW, RX, RZ, SB or SD.

d = Alternate Connectors (x where A - Z): Bx, Cx or Dx.

e = Options: GB, GC, GE, GG, GJ, HE, JS, ME, MR, NC, NG, NH, QX, QY or An (where n = 1, 2, 3...).

### **311albcdefg. Pressure Transmitter.**

IS / I, II, III / 1 / ABCDEFG / T5 Ta = 85°C – 8C1-56.01-2; Entity

I / 0 AEx ia IIC / T5 Ta = 85°C – 8C1-56.01-2; Entity

$V_{max} = 30V$ ,  $I_{max} = 100mA$ ,  $C_i = 27.2nF$ ,  $L_i = 0$

Terminals (Output for isolate shunt switch):

$V_{oc} = 5.9V$ ,  $I_{sc} = 6mA$ ,  $P_o = 8.85mW$ ,  $C_a = 40uF$ ,  $L_a = 1000mH$

a = Approvals: FM.

b = Accuracy: B, C or D.  
c = Standard sensor ranges (psi): PJ, PL, PN, PP, PQ, PR, PS, PO, PT, PV, PX, PZ, RB, RD, RE, RF, RH, RJ, RK, RM, RO, RR, RS, RT, RV, RX, RZ, SB, SD, SF, SH or SK.  
d = Pressure reference: 2, 3, 4, 6, 8, 9 or 10.  
e = Alternate Connectors: CF  
f = Alternate Pressure Ports, (x where A – B): Fx, lx or Lx.  
g = Options: GC, GD - 10X, GE, GG, GH, GJ, GK, GL, GP, GR, GY, HE, HX, JP, JS, JY, ME, NB, NC or An (where n = 1, 2, 3...).

**370albcde. Pressure Transmitter.**

IS / I, II, III / 1 / ABCDEFG / T5 Ta = 85°C – 8C1-56.00-2; Entity

I / 0 AEx ia IIC / T5 Ta = 85°C – 8C1-56.00-2; Entity

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Terminals (Output for isolate shunt switch):

$V_{oc} = 5.9V$ ,  $I_{sc} = 6mA$ ,  $P_o = 8.85mW$ ,  $C_a = 40uF$ ,  $L_a = 1000mH$

a = Approvals: FM

b = Sensors: A, B, C, D, E or F.

c = Standard sensor ranges: RV, RW, RX, RZ, SB or SD.

d = Alternate Connectors: CF

e = Options: GB, GC, GE, GG, GJ, HE, JS, ME, MR, NC, NG, NH, QX, QY or An (where n = 1, 2, 3...).

**Equipment Ratings:**

Intrinsically Safe electrical apparatus for use in Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; Class I, Zone 0, AEx ia IIC; Temperature code T5 at Tamb = 85°C hazardous (Classified) locations in accordance with entity requirements and installation drawing nos. 8C1-56.01-02 and 8C1-56.00-2. (Only Models 311 and 370 Pressure Transmitters with alternate connector suffix code CF are suitable for Class II & III hazardous locations).

**FM Approved for:**

GP:50 New York Limited.  
Grand Island, NY

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3810	2005

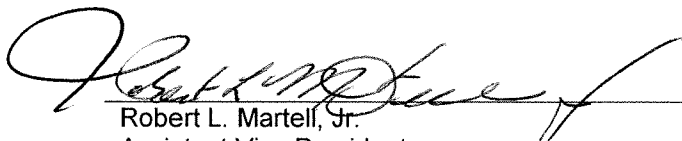
Original Project ID: 3030217

Approval Granted: *October 15, 2007*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

  
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Robert L. Martell, Jr.  
Assistant Vice President

*October 15, 2007*  
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Date