



Member of the FM Global Group

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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**5331C3ab, 5333Cb, 5331D3ab, 5333Db. Temperature Transmitters.**

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C - 5300Q502; Entity

I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C - 5300Q502; Entity

NI / I / 2 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C

ANI / I / 2 / ABCD —5300Q502; Nonincendive Field Wiring

**Entity Parameters:**

V Max = 30 V, I Max = 120 mA, P Max = 0.84 W, C i = 0  $\mu$ F, L i = 10  $\mu$ H.

**NI Field Circuit Parameters:**

V Max = 35 V, C i = 0  $\mu$ F, L i = 10  $\mu$ H.

a = A (Non-isolated); B (Isolated).

b = 1 (Non-configured); 2 (Configured according to order).

**Special Condition for Use:**

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

**5335C, 5335D, 5336D Temperature Transmitters.**

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C - 5300Q502; Entity  
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C - 5300Q502; Entity  
NI / I / 2 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C  
ANI / I / 2 / ABCD — 5300Q502 Nonincendive Field Wiring

## Entity Parameters:

V Max = 30 V, I Max = 120 mA, P Max = 0.84 W, C i = 0 μF, L i = 10 μH;  
V t = 9.6 V, I t = 28 mA, C a = 3.5 μF, L a = 35 mH, P o = 67.2 mW.

## NI Field Circuit Parameters:

V Max = 35 V, C i = 0 μF, L i = 10 μH.

*Special Condition for Use:*

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

**6335C2a, 6335D2a, 6336D2a. Temperature Transmitter.**

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C - 6335QF01; Entity  
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C - 6335QF01; Entity

## Entity Parameters:

V Max = 30 V, I Max = 120 mA, P i = 0.84 W, C i = 0 μF, L i = 10 μH;  
V t = 9.6 V, I t = 28 mA, C a = 3.5 μF, L a = 35 mH, P o = 67.2 mW.

a = A (one channel), B (two channels).

*Special Condition for Use:*

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

**Equipment Ratings:**

PRetop models 5331C3ab, 5333Cb, 5331D3ab, 5333Db 5335C, 5335D and 5336D are suitable for Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations.

PRetop models 5331C3ab, 5333Cb, 5331D3ab, 5333Db 5335C, 5335D 6335C2a, 6335D2a and 6336D2a are Intrinsically safe for Class I, Division 1, Groups A, B, C and D and for Class I, Zone 0, Group IIC hazardous (classified) locations.

**FM Approved for:**

PR Electronics A/S  
Roende, Denmark DK-8410



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

|                   |      |
|-------------------|------|
| Class 3600        | 1998 |
| Class 3610        | 2010 |
| Class 3611        | 1999 |
| Class 3810        | 1989 |
| ANSI/ISA 60079-0  | 2009 |
| ANSI/ISA 60079-11 | 2009 |

Original Project ID: 2D5A7.AX

Approval Granted: November 12, 1999

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date              | Report Number | Date |
|---------------|-------------------|---------------|------|
| 3010292       | February 15, 2001 |               |      |
| 3014788       | August 8, 2002    |               |      |
| 031211        | December 30, 2003 |               |      |
| 051216        | December 21, 2005 |               |      |
| 100611        | July 8, 2010      |               |      |
| 3042053       | March 23, 2011    |               |      |

FM Approvals LLC



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Patrick Byrne  
Technical Team Manager

April 5, 2011

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Date