

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
2. **Certificate No:** FM16CA0160
3. **Equipment:** AV1 Characterizable Pneumatic Positioner  
**(Type Reference and Name)** AV2 Characterizable Pneumatic Positioner  
AV4 Characterizable Pneumatic Positioner
4. **Name of Listing Company:** ABB Inc. - BU Measurement Products
5. **Address of Listing Company:** 125 East County Line Road  
Warminster, Pennsylvania  
18974  
USA
6. The examination and test results are recorded in confidential report number:  
  
3034940 dated 28<sup>th</sup> May 2010
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
CSA-C22.2 No. 0:R2006, CSA-C22.2 No. 213:R2004, CSA-C22.2 No. 142:R2004
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. **Equipment Ratings:**  
  
Nonincendive for use in Class I, II, III Division 2, Groups A-G Hazardous Locations.
11. The marking of the equipment shall include:

**Certificate issued by:**

J. E. Marquedant  
Manager, Electrical Systems

2 October 2016

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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# SCHEDULE



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Class I, Division 2, Groups A, B, C, D; T5 Ta = 40°C;

Class II, Division 2, Groups E, F, G, Class III, Division 2; T5 Ta = 40°C

Enclosure Protection Type 3R or Type 4X when installed per drawing C258567 (AV1 & AV2 only)

## 12. **Description of Equipment:**

**General** - The AV Series Positioners are control devices that provide positioning of pneumatic single or double acting actuators. The AV1 positioners receive an external pneumatic signal and convert it to a pneumatic output. The AV2 positioners accepts a 4-20mA signal that is applied to an I/P converter to generate an internal signal pressure. The AV4 positioner responds to a solid state input to generate an internal signal pressure. .

**Ratings** - The AV Series Positioners are rated for use in an ambient temperature of +40°C.

### **AV1abcdef Characterizable Pneumatic Positioner**

a = Input Signal 1, 2, 5 or 6.  
b = Stroke or Rotary Motion 1 or 2.  
c = Manifold / Gage Block 0, 1 or 3.  
d = Position Transmitter 0, 1 or 2.  
e = Drive Shaft 0, 1, 2, 3, 4 or 5.  
f = Options 0, N or P.

### **AV2abcdef Characterizable Pneumatic Positioner**

a = Explosion Protection / Approval 3.  
b = Stroke or Rotary Motion 1 or 2.  
c = Manifold / Gage Block 0, 1 or 3.  
d = Position Transmitter 0, 1 or 2.  
e = Drive Shaft 0, 1, 2, 3, 4 or 5.  
f = Options 0, N or P.

### **AV4abcdef Characterizable Pneumatic Positioner**

a = Input Signal 4.  
b = Stroke or Rotary Motion 1 or 2.  
c = Manifold / Gage Block 0, 1 or 3.  
d = Position Transmitter 0.  
e = Drive Shaft 0, 1, 2, 3, 4 or 5.  
f = Options 0, N or P.

## 13. **Specific Conditions of Use:**

None

## 14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

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15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
28 <sup>th</sup> May 2010	Original Issue.
2 <sup>nd</sup> October 2016	<u>Supplement 3:</u> Report Reference: – RR206665 dated 2 <sup>nd</sup> October 2016 Description of the Change: Delist of AV3 Positioner. Minor documentation updates.

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