

CERTIFICATE OF CONFORMITY

1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. **Certificate No:** FM16US0321
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:** 7051 Industrial Boulevard, Bartlesville, Oklahoma
74006, United States of America

6. The examination and test results are recorded in confidential report number:

3034940 dated 28th May 2010

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2011, FM 3616:2011, FM 3810:2005

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 (Classified) Locations.

11. The marking of the equipment shall include:

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)

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

4 February 2025

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

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SCHEDULE

US Certificate of Conformity No: FM16US0321

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.

13. Specific Conditions of Use:

None

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

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 May 2010 | Original Issue. |
| 2 October 2016 | <u>Supplement 3:</u> Report Reference: – RR206665 dated 2 nd October 2016 Description of the Change: Delist of AV3 Positioner. Minor documentation updates. |
| 4 February 2025 | <u>Supplement 4:</u> Report Reference: RR244190 dated 4 February 2025. Description of the Change(s): Address change from Warminster PA to Bartlesville OK. Documentation changes. |

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ANNEX

AV1 Characterizable Pneumatic Positioner

Description of Equipment:

AV1abcdef Characterizable Pneumatic Positioner

Enclosure Protection Type 3R or Type 4X when installed per drawing C258567

- 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.

AV2 Characterizable Pneumatic Positioner

Description of Equipment:

AV2abcdef Characterizable Pneumatic Positioner

Enclosure Protection Type 3R or Type 4X when installed per drawing C258567

- 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.

AV4 Characterizable Pneumatic Positioner

Description of Equipment:

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.

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