

CERTIFICATE OF CONFORMITY



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

2. **Certificate No:** FM20US0120
3. **Equipment:** Ultrasonic VeriGAP™
(Type Reference and Name) Point Level Transmitters
4. **Name of Listing Company:** AMETEK Drexelbrook
5. **Address of Listing Company:** 205 Keith Valley Rd,
Horsham, PA 19044
United States of America

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

2Z2A3.AX dated 17th June 1997

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

FM Class 3600:1998, FM Class 3615:2018, FM Class 3810:1989, ANSI/NEMA 250:1991

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:

Explosionproof for Class I, Division 1, Groups A, B, C and D; Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G; hazardous (classified) locations, indoors and outdoors (Type 4X) with an ambient temperature rating of -40°C to +70°C.

11. The marking of the equipment shall include:

Certificate issued by:

J.E. Marquedant

J.E. Marquedant
VP, Manager - Electrical Systems

24 November 2020

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, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

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Class I Division 1, Groups A, B, C, D; T4 Ta = -40°C to +70°C; Type 4X

Class II/III, Division 1, Groups E, F, G,; T4 Ta = -40°C to +70°C; Type 4X

12. **Description of Equipment:**

The 404-1000 Series ultrasonic VeriGAP™ switch is a Level Detection System which senses liquid presence by ultrasonic techniques and energizes a relay which can be utilized to indicate and/or control the liquid at a predetermined level.

A high frequency acoustic signal is transmitted through the sensor gap when liquid is present. When liquid is not present, no signal transmission occurs. When a signal is received, an electronic circuit produces a relay output. The ultrasonic sensor does not contain moving components. It is not affected by electrical or physical parameters of the process material and will operate over a wide temperature range.

As an option, the ultrasonic two-wire Verify™ and Auto Verify circuit is used in conjunction with the VeriGAP for pushbutton verification that the entire control system is functioning properly. This option is used with High Level Fail-safe devices only. It simulates a high level at the sensing element to meet spill prevention regulations and recommended practices.

404-1abc-Fde-fg. Ultrasonic VeriGAP™ Point Level Transmitters.

a = Supply voltage code: 0, 1 or 3.

b = Single or dual point: 0 or 6.

c = Time Delay Options: 0, 2, or 3

d = Verify Options: 0, A, or V

e = Housing type: 1, 2, 3, 4, 6, 8, 9, C or F. (When e = 1 Chassis must be mounted in an FM approved EXPF enclosure, When e = 2,4,3,6, explosionproof 285-0001-415 required for remote sensor transmitter housing.)

f = Relay Options: 0 or 2

g = Fail Safe: 0, 1, or 2

705-abcd-efg-h. Ultrasonic Sensor Probes

a = Option: 0 or blank.

b = Option: 0 or blank.

c = Sensor type: 2, 3, 4 or blank.

d = Sensor temperature construction: 1 or 2.

e = Construction: 6 or blank.

f = Option: 0 or blank.

g = Material type: 1, 3 or 5.

h = 14 Character expanded numbering system.

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.

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SCHEDULE



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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
17 th June 1997	Original Issue.
9 th October 2020	<u>Supplement 3:</u> Report Reference: RR224863 dated 9 th October 2020. Description of the Change: 1) Documentation Update 2) Updated model code 3) Certificate provided in 4) FM3615 updatd to the latest edition due to lack of technical changes between that and the previous edition
24 th November 2020	<u>Supplement 4:</u> Report Reference: RR225704 dated 24 th November 2020. Description of the Change: 1) Updated the ambient temperature values in Sections 10 and 11 of the certificate 2) Updated the model code text associated with "housing options"

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