

CERTIFICATE OF CONFORMITY

1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
2. **Certificate No:** FM16CA0180X
3. **Equipment:** Tank Level System (TLS) PVDF Ultraflex Sensor
(Type Reference and Name)
4. **Name of Listing Company:** AMETEK Drexelbrook
5. **Address of Listing Company:** 205 Keith Road
Horsham, PA 19044 USA
6. The examination and test results are recorded in confidential report number:

3060268 dated 10th March 2017
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:R2015, CSA C22.2 No. 0.4:R2013, CSA C22.2 No. 0.5:R2012, CSA C22.2 No. 25:R2014, CSA C22.2 No. 30:R2012, CSA C22.2 No. 94:R2011, CSA C22.2 No. 213-M1987:R2013, CSA C22.2 No. 60529:R2010, CAN/CSA C22.2 No. 60079-0:2015, CAN/CSA C22.2 No. 60079-1:2016, CAN/CSA C22.2 No. 60079-11:2014, CAN/CSA C22.2 No. 60079-26:2016, CAN/CSA C22.2 No. 61010-1:2004
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 and Intrinsically Safe for Class I, Division 1, Groups C, D in accordance with Control Drawing 420-0004-492-01-CD; Nonincendive for use in Class I, Division 2, Groups A, B, C, D; Dust-Ignitionproof and Intrinsically Safe for Class II, III, Division 1, Groups E, F, G; Indoor and Outdoor (Type 4, 4X, IP66) Hazardous Locations.

Certificate issued by:



J.E. Marquedant
Manager, Electrical Systems

10 March 2017

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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SCHEDULE



Canadian Certificate Of Conformity No: FM16CA0180X

Intrinsically Safe / Flameproof for Class I, Zone 0/1 Ex ia/db IIB T4 Ga/Gb Hazardous Location, with an indoor / outdoor Type 4, 4X and an Ingress protection of IP66.

11. The marking of the equipment shall include:

Class I, Division 1, Groups C, D; T4 Ta = -40°C to +70°C;
Class II, Division 2, Groups A, B, C, D T4 Ta = -40°C to +70°C;
Class II, III, Division 1, Groups E, F, G; T4 Ta = -40°C to +70°C;
Ex ia/db IIB T4 Ga/Gb Ta = -40°C to +70°C;
Type 4 / 4X / IP66

12. **Description of Equipment:**

General - The Total Tank Level System (TLS) is a magnetostrictive liquid and interface level sensor with temperature inputs. The system includes an explosion-proof housing containing a wiring terminal strip and an intrinsically safe probe. Modbus communications are used to receive information from the level, interface and temperature sensors. A variety of floats and mounting accessories are available to fit different applications.

Construction - The Total Tank Level System (TLS) consists of a single compartment electronics housing with thread-cover, A cylindrical seal assembly that separates and a probe. The enclosure is provided with two (2) ¾ inch NPT openings.

Ratings - The Total Tank Level System (TLS) operate at 10-30 Vdc (6W). The transmitters are rated for use in an ambient temperature range of -40°C to +70°C. The transmitter probes are rated for use in a process temperature range of -40°C to +70°C.

M1aXVb. Tank Level System (TLS) PVDF Ultraflex Sensor

a = 1

b = 17 characters expanded numbering that does not affect safety

13. **Specific Conditions of Use:**

1. Contact Manufacturer for Flamepath Information.
2. The equipment contains non-metallic enclosure parts, to prevent the risk of electrostatic sparking the non-metallic surface should only be cleaned with a damp cloth.
3. The O-ring material shall not be subject to environmental conditions which might adversely affect the partition wall.
4. Conduit Seal at Enclosure Entrance

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

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

15. **Schedule Drawings**

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

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16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
10 th March 2017	Original Issue.

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