

CERTIFICATE OF CONFORMITY



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

2. **Certificate No:** FM19US0219
3. **Equipment:** FLUXUS a608 Portable Ultrasonic Flowmeter
(Type Reference and Name)

4. **Name of Listing Company:** Flexim GmbH

5. **Address of Listing Company:** Boxberger Str. 4
Berlin 12681
Germany

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

3041386 dated 24th April 2012

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

FM Class 3600:2018, FM Class 3611:2018, FM Class 3810:2005, ANSI/UL 121201:2017
ANSI/ISA 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:

Nonincendive for Class I, Division 2, Groups A, B, C and D T5 Ta = -10°C to +60°C

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

25 March 2022

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
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



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11. The marking of the equipment shall include:

NI, Class I, Div. 2, GP A, B, C, D, T5 Ta = -10°C to +60°C

12. **Description of Equipment:**

General - The FLUXUS a608 is a portable instrument for non-invasive ultrasonic flow measurement by way of clamp-on sensors for all types of piping. The operator interfaces with the instrument by way of a membrane keypad and an LCD display.

The following accessories are Approved for use with the a608:
p/n 681029-aa. L3B-FM Extension Cable.
aa = cable length in meters.

Construction - The instrument is housed within a polyamide enclosure. Sensor wiring is routed within flexible stainless-steel armored sheath and is terminated at the instrument end using a tool-secured and appropriately marked LEMO FGG 3B connector.

Ratings - The equipment is powered by four Lithium-Ion cells yielding a 7.2V, 6.36 Amp-hour battery pack and operates over an ambient temperature range of -10°C to +60°C.

Fluxus a608bb-F2c-3N-dd-NN-NN-ee Portable Ultrasonic Flowmeter

a = Fluid Class: F or G

bb = Application Software: EN, GP, ST or any other two letter combination between AA and ZZ

c = Channel Number: 1 or 2

dd = Analog Signal Input: N (none) or T (temperature)

ee = Analog Signal Input: N (none) or T (temperature)

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.

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16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
24 th April 2014	Original Issue.
23 rd December 2019	<u>Supplement 3:</u> Report Reference: – RR221334 dated 23 rd December 2019. Description of the Change: Change of company name and address from Flexim Americas Corporation, Edgewood, NY. Revise model code structure. Updated FM Class 3600 from edition 2011; added ANSI/ISA 61010-1:2004.
14 th June 2021	<u>Supplement 4:</u> Report Reference: – PR458926 dated 14 th June 2021. Description of the Change: Product modifications assessed. Update FM Class 3611 from 2004 to 2018 edition. Added ANSI/UL 121201:2017 to list of standards. Removed reference to FM19US0218 (Approval Project 3026327) in Item 12 General. Updated battery pack to 6.2 Amp-hour in Item 12 Ratings per RR201400.
25 th March 2022	<u>Supplement 5:</u> Report Reference: – RR231837 dated 25 th March 2022. Description of the Change: Updated battery pack capacity from 6.2 Amp-hours to 6.36 Amp-hours in Item 12 Description of Equipment: Ratings.

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