

# CERTIFICATE OF CONFORMITY



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

2. **Certificate No:** FM20US0082X  
3. **Equipment:** E – Series  
**(Type Reference and Name)** General Purpose Flowrate Indicator

4. **Name of Listing Company:** Fluidwell bv

5. **Address of Listing Company:** Voltaweg 23  
PO Box 6  
5466 AZ Veghel  
Netherlands

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

3054369 dated 22<sup>nd</sup> January 2016

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 3615:2018, FM Class 3616:2011, FM Class 3810:2005,  
ANSI/ISA 60079-0:2013, ANSI/ISA 60079-1:2013, ANSI/ISA 60079-31:2013,  
NEMA 250:2008, ANSI/IEC 60529:2004

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.

**Certificate issued by:**

J.E. Marquedant  
VP, Manager - Electrical Systems

4 August 2020

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



US Certificate Of Conformity No: FM20US0082X

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; Flameproof for Zone 1, AEx d IIC T6/T5 Gb; and Dust ignition protection by enclosure for Zone 21, AEx tb IIIC T85°C/T100°C Db hazardous (classified) locations, for an ambient temperature range of -40°C to +70°C; indoor/ outdoor Type 4X, IP66/67.

11. The marking of the equipment shall include:

Class I, Division 1, Grps A, B, C, D; Class II/III, Division 1, Grps E, F, G  
Zone 1, AEx d IIC T\* Gb, Zone 21, AEx tb IIIC T\* Db  
Tamb: -40°C...+70°C, IP66/67, Type 4X

\* Temperature Class is based on maximum power dissipation as specified on the label markings:

T6 or T85°C for Max. dissipation 4.5W

T5 or T100°C for Max. dissipation 9.2W

12. **Description of Equipment:**

The E-Series Flowrate Indicator is an indicator for flow, level, pressure and temperature measurement. The indicator consists of an electronic insert in an enclosure made of aluminum or stainless steel.

The range of indicators are indicated with a capital E prefix, 3 digits and several suffixes as per the manufacturer's order code. One suffix always included is "-XD" to indicate hazardous area usage. The indicators are supplied by an internal battery and/or by an external supply or by the circuit supply. Optionally, the indicators can be equipped with a pulse output, a sensor supply output and an input for backlight supply.

Power supply: 3.6 V Lithium battery, 8-30 Vdc or 250 Vac, 50/60 Hz  
4.5 W maximum for T6 or 9.2 W maximum for T5.

***Exxx – z, a, c, h, i, o, p, x, z. General Purpose Flowrate Indicator***

xxx = Model number representing firmware range: 000 – 999 (Does not affect FM Approval)

z = Primary Sensor Input: A, P or X.

a = Analog Output: AH or AX

c = Communication Output: CB, CH, CR, CU, CT or CX.

h = Enclosure: HA\_, HS\_, H\_A, H\_B, H\_C, H\_D, H\_E, H\_F, H\_G, H\_H, HB\_, HC\_HD\_, HT\_, HU\_, HV\_, H\_A,, H\_C or H\_E.

i = Additional Input: IB, IR or IX.

o = Digital Outputs: OR, OT and OX.

p = Power Requirements: PB, PD or PX.

x = Hazardous Area: XD.

z = Options: ZA, ZB, ZF, ZG, ZL or ZX.

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**13. Specific Conditions of Use:**

1. The property class of the hexagon socket head screws of process connection A (cylindrical joint) is A2-70 or better.
2. The details of the flameproof joints are specified in the manufacturer's instructions.
3. The painted aluminum enclosure shall be installed in such a way that danger of ignition due to electrostatic discharge is avoided. Possible electrostatic hazard – clean only with a moist cloth. Use only in fixed installations and do not place in areas with rapid airflow.

**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
22 <sup>nd</sup> January 2016	Original Issue.
4 <sup>th</sup> August 2020	Supplement 1: Report Reference: – PR457526 dated 4 <sup>th</sup> August 2020. Description of the Change: Add alternate Aluminum enclosure material. Certificate updated to latest format.

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