

# CERTIFICATE OF CONFORMITY

1. EQUIPMENT CERTIFICATE OF CONFORMITY PER US REQUIREMENTS FOR

2. Certificate No: **FM25US0364X**
3. Equipment:  
(Type Reference and Name) **JF-1A-ST**
4. Name of Listing Company: **D-2 Inc**
5. Address of Listing Company: **6 Otis Park Dr, Location 1, Bourne, Massachusetts  
02532, United States of America**

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

PR473597 dated 27 March 2026

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

FM 3600:2022, FM 3610:2021, FM 3810:2021, ANSI/UL 60079-0:2019, ANSI/UL 60079-11:2014,  
ANSI/UL 61010-1:2012

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. Approval Guide Listing Category:

Sensors, Conductivity, Explosive Atmospheres - US

11. Equipment Ratings:

Intrinsically Safe for Class I, Division 1, Groups A, B, C and D, T4 hazardous (classified) locations.  
Intrinsically Safe for Class I, Zone 0, AEx ia IIC T4 hazardous (classified) locations.

Certificate issued by:



J.E. Marquedant  
VP, Manager - Electrical Systems

27 March 2026

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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US Certificate of Conformity No: FM25US0364X

12. The marking of the equipment shall include:



Intrinsically Safe  
CL I, DIV 1, GRP A, B, C & D, T4  $-30^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$   
CL I, ZN 0 AEx ia IIC T4 Ga  $-30^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

### 13. Description of Equipment:

The JF-1A-ST, Stick Conductivity Sensor, is a instrument for the spot sampling measurement of electrical conductivity of fuels. The JF-1A-ST incorporates electronic Digital Signal Processing (DSP) techniques to determine the electrical conductivity of fuel products.

#### Operation Temperature Ranges:

The ambient operating temperature range of the JF-1A-ST, Stick Conductivity Sensor is  $-30^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ .

#### Electrical data:

In type of protection intrinsic safety, the device is considered to be a system with power supplied from two intrinsically safe "AAA" batteries.

#### **JF-1A-ST-a, Conductivity Sensor FM25ATEX0043X**

a = none, 1 or 2.

### 14. Specific Conditions of Use:

- 1) Refer to manual for battery replacement.
- 2) The Model JF-1A-ST Conductivity Sensor shall use only Energizer LN92 (AAA) batteries.

### 15. Test and Assessment Procedure and Conditions:

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

### 16. Schedule Drawings

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

### 17. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
27 March 2026	Original Issue.

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