



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CML 19.0162X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 [Issue 0 \(2021-03-31\)](#)
Date of Issue: 2021-08-04
Applicant: **Elkhart Brass Manufacturing Company, Inc.**
1302 West Beardsley Ave., Elkhart, IN 46514
United States of America
Equipment: **Electric Spit-Fire Monitor System**
Optional accessory:
Type of Protection: **Flameproof "db", Increased Safety "eb", Dust Ignition "tb", Non-Electrical "h"**
Marking: Ex db eb h IIC T4 Gb
Ex h tb IIC T130°C Db

Approved for issue on behalf of the IECEx
Certification Body:

S. Roubedakis

Position:

Technical Manager

Signature:
(for printed version)

Date:
(for printed version)

2022-08-04

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Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **Elkhart Brass Manufacturing Company, Inc.**
1302 West Beardsley Ave., Elkhart, IN 46514
United States of America

Manufacturing locations: **Elkhart Brass Manufacturing Company, Inc.**
1302 West Beardsley Ave., Elkhart, IN 46514
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

[ISO 80079-36:2016](#) Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements
Edition:1.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/CML/ExTR19.0185/00](#)

[GB/CML/ExTR21.0270/00](#)

Quality Assessment Report:

[GB/CML/QAR20.0030/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Electric Spit-Fire Monitor System is a fire suppression system that consists of a main monitor arm, an increased safety junction box and a flameproof and increased safety control panel.

Refer to Certificate Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) **Issue 1**

This issue introduced the following changes:-

1. Introduction of a new control panel 2-Monitor Networked Operator Control Panel (Elkhart P/N 24359055V)
2. To recognise and permit corrections to the manufacturing drawings.

Annex:

[Certificate Annex IECEx CML 19.0162X Iss 1.pdf](#)

Annexe to: IECEx CML 19.0162X Issue 1
Applicant: Elkhart Brass Manufacturing Company, Inc
Apparatus: Electric Spit-Fire Monitor System

Description

The Electric Spit-Fire Monitor System is a fire suppression system that consists of a main monitor arm, an increased safety junction box and a flameproof and increased safety control panel.

The monitor arm consists of three increased safety motors, a pressure gauge and a nozzle. The arm is intended to be rotated along three planes.

The increased safety junction box is separately certified by Adalet under the certificate numbers DEMKO 01 ATEX 130438X and IECEx UL 09.0017X. It provides connection between the motors and the control panel.

The flameproof and increased safety control panels are available in two arrangements:

The standard control panel consists of a separately certified increased safety enclosure and flameproof enclosure arrangement. The standard control panel is available from two suppliers. The arrangement from Stahl is certified under certificate numbers KEMA 01ATEX2145X and IECEx KEM 07.0051X. The arrangement from Ex Zone is certified under certificate numbers CESI 01 ATEX 027X and IECEx CES 16.0012X for the flameproof enclosure and CML 17ATEX3214X and IECEx CML 17.0116X for the increased safety enclosure.

The networked control panel also consists of a separately certified increased safety enclosure and flameproof enclosure arrangement. The arrangement is certified by Ex Zone under certificate numbers CESI 01 ATEX 027X and IECEx CES 16.0012X for the flameproof enclosure and CML 17ATEX3214X and IECEx CML 17.0116X for the increased safety enclosure.

The Spit-Fire Monitor System is also available in two models depending on the delivery rate of water. The SM 1250BE-HL is intended to deliver up to 1250 GPM at 72 PSI (4731 LPM at 5 bar). The SM 2000BE-HL is intended to deliver up to 2000 GPM at 82 PSI (7570 LPM at 5.7 bar).

The rating of the system is 240 V AC 50/60Hz.

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Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The motors shall be subjected to routine dielectric strength test in accordance with IEC 60079-7 Clause 7.1. The test shall be conducted at 1500 V a.c. or 2550 V d.c. for at least 1 minute. Alternatively, the test can be carried out at 1.2 times for at least 100 ms. The test shall be conducted between phase and ground. There shall be no breakdown or flashover as a result of the test.
- iii. All conductors/cables that are connected to the Adalet Enclosure (when used) shall be copper and shall be suitable for +80°C

Specific Conditions of Use

- i. The equipment has an ingress protection rating of IP66. As such, cable entry devices and blanking elements used with the equipment shall provide this level of ingress protection rating in addition to the appropriate type of protection.
- ii. When included, the Stahl 8264/5000-3 Control Unit and the Cortem Control Unit EJB-5B include flameproof joints that have dimensions that differ from the requirements of IEC 60079-1, Table 3. As such, the flameproof joints are not intended to be repaired by anyone other than the manufacturer.
- iii. When included, the Stahl 8264/5000-3 Control Unit includes screws that have property class A4-70 for M10 and A4-80 for M12 and M14. This shall be taken into consideration if they need to be replaced or repaired.
- iv. When the equipment is fitted with the ETBCS Control Station, it is the user's responsibility to ensure that the assembly is installed and operated in a location where the external conditions are not conducive to the build-up of electrostatic charge on the external surfaces/parts of the control station. In addition, the equipment shall only be cleaned with a damp cloth.