



EU Type Examination Certificate CML 19ATEX3446X Issue 1

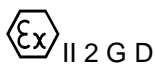
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Electric Spit-Fire Monitor System**
- 3 Manufacturer **Elkhart Brass Manufacturing Company, Inc.**
- 4 Address **1302 West Beardsley Ave, Elkhart,
IN 46514, USA**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015/A1:2018
EN 60079-31:2014	EN 60079-31:2014	EN ISO 80079-36:2016

- 10 The equipment shall be marked with the following:



II 2 G D

Ex db eb h IIC T4 Gb

Ex h tb IIIC T130°C Db





CML 19ATEX3446X
Issue 1

11 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.

Variation 1

This variation introduced the following changes:

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

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	31 Mar 2021	R12461A/00	Issue of Prime Certificate
1	04 Aug 2022	R14781A/00	Introduction of variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.



CML 19ATEX3446X
Issue 1

13 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 EN 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.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- 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 EN 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.

Certificate Annex

Certificate Number CML 19ATEX3446X
Equipment Electric Spit-Fire Monitor System
Manufacturer Elkhart Brass Manufacturing Company, Inc.



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
44857000	1 of 1	REL	31 Mar 2021	Label – Identification SM-1250BE-HL ATEX
44816159	1 of 1	A	31 Mar 2021	Label – Identification Industrial “Spitfire” Monitor (ATEX)
44858000	1 of 1	REL	31 Mar 2021	Label – Identification SM-2000DE-HL ATEX
44856000	1 of 1	REL	31 Mar 2021	Label – Warning – Wiring Supervision
81471122 V	1 of 5	B	31 Mar 2021	ATEX, IECEx Hardwired MCP Panel Layout - Base
81471122 V	2 of 5	B	31 Mar 2021	ATEX, IECEx Hardwired MCP Wiring Diagram – All Options
81471122 V	3 of 5	B	31 Mar 2021	ATEX, IECEx Hardwired MCP Wiring Diagram – Base
81471122 V	4 of 5	B	31 Mar 2021	ATEX, IECEx Hardwired MCP Details
81471122 V	5 of 5	B	31 Mar 2021	ATEX, IECEx Hardwired MCP Label Details & Notes
46091000	1 of 1	D	31 Mar 2021	Motor-Electric (240VAC) AC Synchronous
46092000	1 of 1	G	31 Mar 2021	Motor-Electric (240VAC) AC Synchronous
WEB-08394053	1 of 1	B	31 Mar 2021	Web-8394053 Electric Monitor with Nozzle – Reference Dimensions

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
81471124V	1 to 10	REL	04 Aug 2022	ATEX-IECEX STANDARD MCP- R.STAHL PANEL LAYOUT
81471134V	1 to 5	A	04 Aug 2022	ATEX-IECEX STANDARD MCP- EX ZONE PANEL LAYOUT
81471135V	1 to 6	C	04 Aug 2022	ATEX-IECEX NETWORKED MCP- EX ZONE PANEL LAYOUT
WEB-08394159	1 of 1	A	04 Aug 2022	WEB- 8394159 ELECTRIC MONITOR WITH NOZZLE- REFERENCE DIMENSIONS
24359055V	1 to 4	A	04 Aug 2022	ATEX-IECEX NETWORKED OCP- EX ZONE PANEL LAYOUT