

UK Type Examination Certificate CML 23UKEX1267X Issue 0**United Kingdom Conformity Assessment**

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **Flame Arrester FA-2**
- 3 Manufacturer **GDS Technologies Ltd**
- 4 Address **Fusion Point,
Ash Lane, Garforth,
Leeds,
L25 2GA**

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

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 specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 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

- 10 The equipment shall be marked with the following:



II 2 G

Ex db IIC T4/T5/T6 Gb

Ta=-30°C to +129 °C (T4)

-30°C to +94 °C (T5)

-30°C to +79 °C (T6)





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11 Description

Designed specifically for low flow sampling of potentially hazardous gases up to group IIC. The In-line Flame Arrestor consists of a detonation – pressure proof housing with connections at either end and an arrestor barrier through which the vapour and/or gas mixture can flow, however a flame transmission is blocked.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	28 Jul 2023	R16301A/00	Issue of prime certificate

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

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 of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. The Flame Arrestor shall be installed with a blast plate, either side of the sintered disk. The blast plate shall be in accordance with the manufacturer's drawings.
- iii. The Manufacturer shall provide copies of certificates and instructions for the Flame Arrestor FA-2

14 Specific Conditions of Use

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

- i. Do not open any FA-2 couplings when a hazardous gas atmosphere is present.
- ii. No modifications or changes to the equipment are allowed. Do not dismantle Flame Arrestor FA-2 or modify any flameproof joints.

Certificate Annex

Certificate Number CML 23UKEX1267X
Equipment Flame Arrester FA-2
Manufacturer GDS Technologies Ltd



The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
252 M20C	1 of 1	B	28 Jul 2023	Micro Flame Arrester FA-2 (Bidirectional) Body
252 M21C	1 of 1	B	28 Jul 2023	Micro Flame Arrester FA-2 (Bidirectional) Stud Connector
252 M22C	1 of 1	A	28 Jul 2023	Micro Flame Arrester FA-2 (Bidirectional) Sintered Disk
252 M23C	1 of 1	B	28 Jul 2023	Micro Flame Arrester FA-2 (Bidirectional) General Assembly
252 M24C	1 of 1	B	28 Jul 2023	Micro Flame Arrester FA-2 (Bidirectional) 20 mm Body
252 M25C	1 of 1	B	28 Jul 2023	Micro Flame Arrester FA-2 (Bidirectional) 20 mm Body General Assembly
252 M26C	1 of 1	A	28 Jul 2023	Flame Arrester FA-2 Bidirectional Body
252 M27C	1 of 1	A	28 Jul 2023	Flame Arrester FA-2 Bidirectional Stud
252 M28C	1 of 1	A	28 Jul 2023	Flame Arrester FA-2 Bidirectional Body (20 mm)
252 M29C	1 of 1	A	28 Jul 2023	Micro Flame Arrester FA-2 (Bidirectional) Blast Plate