

CERTIFICATE OF CONSTANCY OF PERFORMANCE

1725 - CPR - UKE1019

In compliance with Statutory Instruments 2019 No. 465, The Construction Products (Amendment etc.) (EU Exit) Regulations 2019 (as amended), this certificate applies to the construction product

FL5000 Multi-Spectrum Infrared Flame Detector

Models: See Appendix

Scope of certificate: FL5000 Multi-Spectrum Infrared Flame Detector:

Flame Detectors – Point Detector for fire detection and fire alarm systems for buildings

Sensitivity: meets Class 1 (high, medium, and low sensitivities) for n-Heptane fire and Class 1 (high and medium sensitivities) and Class 2 (for low sensitivity) for Methylated Spirits fire.

placed on the market under the name or trade mark of

General Monitors Inc

an MSA Company

16782 Von Karman Ave. Unit 14

Irvine CA 92606

United States

and produced in the manufacturing plant(s)

MSA Innovation, LLC

1000 Cranberry Woods Dr.,

Cranberry Township PA 16066

United States

General Monitors Ireland LTD

Ballybrit Business Park

Galway, Ireland

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the designated standard(s):

EN 54-10:2002 +A1:2005 Flame Detectors – Point detector

under system 1 for the performances set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product(s)

This certificate was first issued on 9th October 2023 and will remain valid as long as neither the designated standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the approved factory production control certification body.

Issue 5, Maidenhead, dated 12 June 2025

Victor Aluko-Oginni, Certification Manager

On behalf of FM Approvals Ltd

(PR458170, PR466847, RR239935, PR467827, RR246273)

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F UKCP 028 (Jan/2021)

This certificate remains the property of FM Approvals and has been issued in accordance with FM Approvals UKCA CPR Certification Scheme.



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Note: the contents of the above certificate may be modified as required to be in accordance with the latest guidance issued by the Group of Approved Bodies for Construction Products Regulations.

APPENDIX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

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1725-CPR-UKE1019 FL5000 Multi-Spectrum Infrared Flame Detector	
Spectrum Response	Multi-Spectrum IR Bands
Firmware	SK3608-1181 (Rev. 1.02.0168)
Adjustable Time Delay	Up to 30 seconds; refer to the manual 10238682
Sensitivity Range	3 Sensitivity Ranges: High, Medium, and Low; n-Heptane Fire: Class 1 for High, Medium, and Low sensitivities Methylated Spirit Fire: Class 1 for High and Medium Sensitivities/Class 2 for Low sensitivity refer to the manual 10238682
Field of Views (FOVs)	Maximum: Horizontal 90°, Vertical 75°; refer to the manual 10238682 for more details
Response Characteristics	Max 210 ft (64 m) for N-Heptane pan fire. Detection time typically 10 seconds; refer to the manual 10238682
Built-in-Test	Automatic self-check to verify the lens cleanliness, functionality of electronic circuits, software
Temperature Range	-55°C to +80°C -67°F to +176°F
Humidity	0 to 95% RH, non-condensing
Power Consumption	24 VDC nominal (20-32 VDC) Heater 'OFF': Max. 6.2 W Heater 'ON': Max. 9.7 W refer to the manual 10238682
Outputs	Relay Output: Instant Alarm, Sustained Alarm, Fault. Accessory Contacts rated 8A at 30 VDC Analog Output: Output Signal Range: 0-20mA (stepped) Fault: 1.25 mA default when HART is off, refer to the manual 10238682 COPM fault signal: 2.0 ± 0.2 mA default, refer to the manual 10238682 Ready: 4.05 ± 0.2 mA default, refer to the manual 10238682

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	Instant Alarm: 16.0 ± 0.2 mA Sustained Alarm: 20 ± 0.2 mA Maximum Output Signal Load: 600Ω @ 24 VDC HART communications on the 0-20mA analog current (FSK) - used for maintenance, configuration changes etc. RS-485 Modbus - used for maintenance, configuration changes etc. Bluetooth® - used for maintenance, configuration changes etc. Bluetooth® Load: 3.0 mA The FL5000 operates via connection to a compatible Approved control panel, providing separate circuits for alarm signaling and for power. Alarm latching function may be provided by the panel or the detector.
Status Indicators	Green, Yellow, and Red per requirements of the standard; Blue for Bluetooth® pairing
Enclosure	Stainless Steel 316 with Polyester TGIC Powder Coating
Mounting	Stainless Steel 316
Accessories	TL105 Test Lamp (p/n TL105-1001), Mounting Bracket (p/n 71370-1), Air Curtain (p/n 712881-1), Rain Guard (p/n 712004-1), $\frac{3}{4}$ -14 NPT Conduit Plug (p/n 10177576), M25 Conduit Plug (p/n 10203507), $\frac{3}{4}$ -14 NPT Male to M25 Female Conduit Adapter (p/n 914-196), FL4000H Upgrade Kit (p/n 10242703)
Certification Type	UK CPR ("UKCA")
CPR Certificate Number	1725-CPR-UKE1019

INITIAL TYPE TEST RESULTS BY APPROVED BODY:

<i>Classification & applicable standard</i>	<i>Assigned rating</i>
EN 54-10:2002 + A1:2005	Meets all requirements of Annex ZA

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