



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

System Description – FL500 and FL500-H2

Approval Guide Listing: Category:

- Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Flame-Actuated
- Hazardous Location Equipment - United States Detectors Flame

General Monitors Inc
 26776 Simpatica Cr
 Lake Forest, CA 92630
 United States

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

<i>Approval Standards</i>		<i>Other Standards</i>	
<i>Class Number</i>	<i>Date</i>	<i>Organization, Designation</i>	<i>Date</i>
3260	2018		
3600	2018		
3615	2018		
3616	2011		


Original Approval Job Identification: PR449306

Approval Granted: 22 March 2021

Related Report: PR458120

Subsequent Revisions:

To verify the availability of the Approved product, please refer to www.approvalguide.com


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22 March 2021

 Date



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Approval Guide Listing:

- ☑ Electrical Signaling ☑ Alarm Signal Initiating Devices ☑ Fire Detection, Flame-Actuated
- ☑ Hazardous Location Equipment - United States ☑ Detectors ☑ Flame

The FL500 and FL500-H2 UV/IR Flame Detectors are Approved for use:

Hazardous Location Equipment	XP/II/1/ABCD/T5 DIP/II, III/1/EFG/T5 -50°C ≤ Ta ≤ +85°C
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Operating Voltage: 24Vdc [20 to 36Vdc]

Current draw: 200mA max. during COPM only, typical 80mA – 150mA

Dry contact Form C SPDT relay outputs: 250 VAC, 30VDC, 5A

Operating temperature and humidity range is -50°C to +85°C (-67°F to +185°F), 0-95 %RH

4-20mA Outputs:

- Fault 0 – 0.2mA,
- COPM Fault 2mA,
- Ready, 4mA
- IR signal 8mA
- UV signal 12mA
- Alarm low signal 16mA
- Alarm high signal 20mA

Compatible Approved control panel for alarm and trouble reporting.

Sensitivity settings: High, Medium, Low

FL500 Flame Simulator: not FM Approvals examined

FL500 Firmware: version 0

FL500-H2 Firmware: version 2.00.0011

Fuels: see below table

Detection times on axis at high sensitivity:

Fuel	Distance (feet)	Average Response Time (s)
n-Heptane	90	6
	60	2.7
Methanol	40	12
Methane	80	9.9
Propane	60	6.5
Butane	55	5.5
Ethane	60	2.1
Hydrogen (FL500-H2 only)	60	2.1



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