



# 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  
16782 Von Karman Ave.  
Unit 14  
Irvine, CA  
92606  
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:

*Approval Standards*

<i>Class Number</i>	<i>Date</i>
3260	2018
3600	2018
3615	2018
3616	2011

*Other Standards*

<i>Organization, Designation</i>	<i>Date</i>
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Original Approval Job Identification: PR449306

Approval Granted: 22 March 2021

Related Report:

Subsequent Revisions: RR229191, dated 8/2/2021

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

*J.E. Marquedant*

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6 August 2021

Date



Member of the FM Global Group





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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 1  
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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