



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:

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

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



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6 August 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/I/I/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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