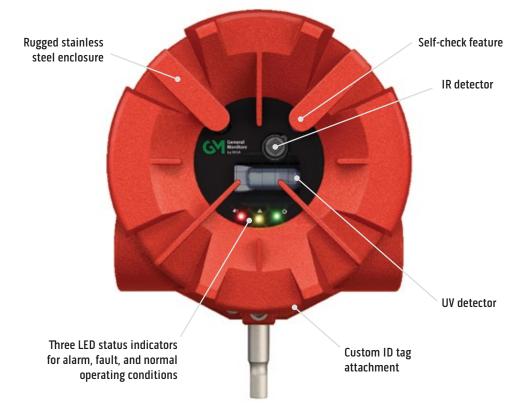
FL500-H2 UV/IR FLAME DETECTOR





UV/IR TECHNOLOGY

A UV/IR flame detector combines an ultraviolet (UV) sensor for quick response and an infrared (IR) sensor that monitors radiation emitted by a hydrogen flame. This combination offers increased immunity, operates at faster speeds and is suited for both indoor and outdoor use.

IMPROVED DESIGN

Stainless steel housing, three LED status indicators, reduced footprint, and simplified wiring make the FL500 easy to install and maintain.

FM PERFORMANCE APPROVED DETECTION

The FL500-H2 Flame Detector is performance approved by Factory Mutual (FM) for hydrogen fires.

SAFETY INTEGRITY SELF-CHECK

Every two minutes, a built in self-check known as Continuous Optical Path Monitoring (COPM) performs an optical and electrical check to ensure the optical path is clear and the electronic circuitry is operational.

RELIABLE TESTING ANYTIME, ANYWHERE

The FL500 can be tested with our exclusive TL105 Test Lamp, which simulates the flickering of a fire. This allows the detector to be tested under simulated fire conditions without the associated risk of an open flame.



WE KNOW WHAT'S AT STAKE.

FL500-H2 UV/IR FLAME DETECTOR



SYSTEM SPECIFICATIONS

Wave Lengths	185 to 260 nm (UV) 2.95 microns (IR)
Field of View	Up to 130° max. conical
Fuel Hydrogen	Distance (ft.) Response Time (s) 60 ft (18 m) < 3.0
Accessories	test lamp
Classification	Class I, Div 1, Groups B, C, D; Class II, Div 1, Groups E, F, G; Class III, Type 6P Ex db IIC T5 Gb; Ex tb IIIC T100°C Db II 2 G D IP66/IP67
Warranty	Three Years
Approvals	CSA, FM, ATEX, IECEx, INMETRO, CE Marking HART 7 registered SIL 3 suitable

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range	-67°F to +185°F
	(-55°C to +85°C)
Storage Temperature Range	-40°F to +185°F
	(-40°C to +85°C)
Operating Humidity Range	0% to 95% RH, non-condensing

MECHANICAL SPECIFICATIONS

Housing	316 Stainless Steel, powder coated
Diameter	4.5" (114 mm)
Length	5.5″ (140 mm)
Weight	9 lb. (4.0 kg)
Mounting	Stainless steel mounting bracket
Cable Entry	2 x 3/4" NPT or 2 x 25 mm
Standard Configuration	FL500-5-5-1-2-1-2-1-1 1.25 mA HART, source current, relays, Modbus, high sensitivity, 4 sec. delay, Hydrogen, 3/4" NPT, mounting bracket

ELECTRICAL SPECIFICATIONS

VDC A max. current nax. power consumption) 150 mA e or Sink nA
150 mA e or Sink
e or Sink
nA
mA*
± 0.2 mA**
± 0.2 mA
± 0.2 mA
, ± 0.2 mA
, ± 0.2 mA
, ± 0.2 mA
O VAC,
30 VDC resistive (North America),
30 V RMS/42.4 V peak,
30 VDC resistive (Europe)
Medium, Low
High 2, 4, 8, or 10 seconds
ng/Non-Latching
zed/De-Energized
s RTU, suitable for linking up to 128
or up to 247 units with repeaters.
4800, 9600, or 19200 BPS
HART 7 FieldComm compliant
ies with EN 50130-4, EN 61000-6-4
ned or screened and armored to
18 Part 2, Type 2, or equivalent.
s with status, fault,
arm conditions
ry checksum, reset line shorted,
blockage, internal voltages,
w supply voltage

* Under HART, current values can be either 3.5 mA or 1.25 mA, depending on user selection ** Under HART, current values can be either 3.5 mA or 2.0 mA, depending on user selection

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

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