



# GENERAL MONITORS

26776 Simpatica Circle  
Lake Forest, California 92630  
Telephone: +1-949-581-4464  
Main Fax: +1-949-581-1151

Website: [www.generalmonitors.com](http://www.generalmonitors.com)  
Email: [info@generalmonitors.com](mailto:info@generalmonitors.com)



## *DECLARATION OF CONFORMITY*

**Scope:** Declaration of Conformity with IEC 61508 – Functional Safety of Electrical/Electronic/Programmable Electronic Safety Related Systems

**Organization:** General Monitors, Inc  
26776 Simpatica Circle  
Lake Forest, CA 92630  
USA

### **Description:**

The products listed on the following table are suitable for application at the stated SIL levels per the IEC 61508 standard in the following respects:

1. The product's failure modes (failure to respond to a valid input) and the demonstration (by means of failure mode and effect analysis – FMEA) of a safe failure fraction (SFF), which makes it suitable for a specific SIL application – as detailed in the Technis FMEA reports.
2. A probability of failure on demand (PFD, based on the FMEA) assuming a proof test interval of 3 months and a repair time of 4 hours – as detailed in the Technis FMEA reports.
3. Appropriate control over purchased materials.
4. Third party review and assessment. As is provided by Technis and is detailed in the Technis FMEA reports. Additional FMEDA review and certificates issued by Epsilon.

### **Limits of Application:**

1. Temperature Rating: Refer to product specification.
2. Maintenance Schedule: It is recommended that periodic maintenance be conducted at least every 90 days.
3. Product Life: 15 – 20 years.

### **Control of Internal Production Compliance:**

BS EN ISO 9001:2000 (CERT#: 013088).

<b>Product</b>	<b>SIL Suitability Level</b>	<b>Technis Report No.</b>	<b>Epsilon Certificate No.</b>
FL4000 Flame Detector (Multi-Spectral IR)	3	T323 / T227	07SIL2297
FL3100 Flame Detector (UV/IR)	3	T268	07SIL2298
FL3110 Flame Detector (UV/IR)	2	T234	05SIL1436
FL3111 Flame Detector (UV)	2	T234	05SIL1436
FL3112 Flame Detectors (Dual IR)	2	T234	05SIL1436
S4000C Combustible Gas Detector	2/3*	T243	06SIL2042
S4000CH Combustible Gas Detector with HART Communications	2/3*	T373	08SIL2362
S4000T H2S Gas Detector	2/3*	T244	06SIL2042
S4000TH H2S Gas Detector Detector with HART Communications	2/3*	T407	(Q2-09)
S4100C Combustible Gas Detector	2/3*	T204	05SIL1405
S4100T H2S Gas Detector	2/3*	T204	05SIL1405
IR2100 IR Point Combustible Gas Detector	2	T288	07SIL2299
Field Mounted Display (FMD)	2	T296	07SIL2301
IR5000 Open Path IR Combustible Gas Detector	2/3**	T311	07SIL2302
4802A Controller	2	T294A	07SIL2300
2602A Controller	2	T294A	07SIL2300
TA102A Controller	2	T294A	07SIL2300
TA202A Controller	2	T294A	07SIL2300
TA402A Controller	2	T294A	07SIL2300
DT210 Controller	2	T299	06SIL2104
TS4000 Toxic Gas Detector	2	T321	07SIL2303
TS400 Toxic Gas Detector	2	T334	07SIL2305
TS420 Oxygen Deficiency Detector	2	T437	(Q2-09)
Gassonic Observer Ultrasonic Gas Detector	2	T372	08SIL2364
Gassonic Surveyor Ultrasonic Gas Detector	1	T370	08SIL2363
IR400 HART IR Point Combustible Gas Detector	3	T417	(Q2-09)
IR4000S Single-Point Monitor	2	T414	(Q2-09)
IR4000M Multiple-Point Monitor	2	T415	(Q2-09)

*\*Use in typical environments has a lower safety rating than clean environments.*

*\*\*The 4-20 mA output has a higher safety rating than relay outputs.*