



GENERAL MONITORS

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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).

Product	SIL Suitability Level	Technis Report No.	Certificate No.
FL4000 Flame Detector (Multi-Spectral IR)	3	T323 / T227	GMT-SIL CERT001
FL3100 Flame Detector (UV/IR)	3	T268	GMT-SIL CERT003
FL3110 Flame Detector (UV/IR)	2	T234	Epsilon 05SIL1436
FL3111 Flame Detector (UV)	2	T234	Epsilon 05SIL1436
FL3112 Flame Detectors (Dual IR)	2	T234	Epsilon 05SIL1436
S4000C Combustible Gas Detector	2/3*	T243	Epsilon 06SIL2042
S4000T H2S Gas Detector	2/3*	T244	Epsilon 06SIL2042
S4100C Combustible Gas Detector	2/3*	T204	Epsilon 05SIL1405
S4100T H2S Gas Detector	2/3*	T204	Epsilon 05SIL1405
IR2100 IR Point Combustible Gas Detector	2	T288	GMT-SIL CERT004
Field Mounted Display (FMD)	2	T296	GMT-SIL CERT005
IR5000 Open Path IR Combustible Gas Detector	2/3**	T311	GMT-SIL CERT006
4802A Controller	2	T294A	GMT-SIL CERT007
2602A Controller	2	T294A	GMT-SIL CERT008
TA102A Controller	2	T294A	GMT-SIL CERT010
TA202A Controller	2	T294A	GMT-SIL CERT011
TA402A Controller	2	T294A	GMT-SIL CERT012
DT210 Controller	2	T299	Epsilon 06SIL2104
TS4000 Toxic Gas Detector	2	T321	GMT-SIL CERT013
TS400 Toxic Gas Detector	2	T334	GMT-SIL CERT014

**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.*