

Safety Integrity Level [S.I.L.] Declaration

In accordance with ISO / IEC 17050-1:2004

We the undersigned declare under our sole responsibility that the product to which this declaration relates have been independently assessed and found to conform to the requirements of IEC 61508:2005.

Conformity has been derived from a combination of failure mode and effect analysis [FMEA] and proven in use returns data, in respect of Safe Failure Fraction (SFF) the unit has been judged to be suitable for use, as specified below:

Reference No / Version

SIL 13-003

Product Description

Gasmaster (3rd generation)

Specific Standards

IEC61508

S.I.L. Level

2

Safety Manner

Simplex

Assessment Results

	Failure Rate ¹	PFD ²	SFF ³ %	S.I.L.
Failure to activate alarm relay contact (4-20mA input)	0.11	1.3 10 ⁻⁴	>92%	2
Failure to activate alarm relay contact (mV pellistor input)	0.11	9.3 10 ⁻⁵	>94%	2
Inaccurate analogue output signal (4-20mA input)	0.15	3 10 ⁻⁴	>81%	1
Inaccurate analogue output signal (mV pellistor input)	0.15	1 10 ⁻⁴	>85%	1

Assessment Body

Technis
26 Orchard Drive
Tonbridge, Kent TN10 4LG
Report number: T679 Issue 1.0
Issue date: 21st Feb 2013

Signatory

Signature: 

Name & Position: Mark Osborne, Product Development Director

Date: 30th September 2013

- 1. - Per Million Hours
- 2. - Probability of Failure on Demand
- 3. - Safe Failure Fraction

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