



Certificate of compliance Solution



Holder SAM Engineering & Trade Co., Ltd.

Solution Natural Gas Leak Detection System

Basis of Certification IEC 61511:2016

Certification Include(s)

- ☒ Safety requirements specification
- ☒ Hardware requirements
- ☒ Reliability requirements
- ☒ User documentation

Functional Safety Data

Safety function See report
Functional safety parameters See 2nd page of this certificate

Certification Results Risknowlogy certifies that the above Safety Instrumented System meets the requirements of the Basis of Certification for the selected assessment(s). The Risknowlogy report 1970.550.9 is an integral part of this certificate.

Certificate Number 1970.550.10-0

Initial Certification 2023-03-15

This Certificate 2023-03-15

Expiry Date After modification of safety instrumented system(s) or 2028-03-15

Certifier Dr Michel Houtermans





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SIS	SIF	TAG	Mode	PTI	SIL
Main control room	SIF 1	NG-SNR-1	Low demand	3 Months	SIL 2
	SIF 2	NG-SNR-2	Low demand	3 Months	SIL 2
	SIF 3	NG-SNR-3	Low demand	3 Months	SIL 2
	SIF 4	NG-SNR-4	Low demand	3 Months	SIL 2
	SIF 5	NG-SNR-5	Low demand	3 Months	SIL 2
	SIF 6	NG-SNR-6	Low demand	3 Months	SIL 2
	SIF 7	NG-SNR-7	Low demand	3 Months	SIL 2
	SIF 8	NG-SNR-8	Low demand	3 Months	SIL 2
	SIF 9	NG-SNR-11	Low demand	3 Months	SIL 2
	SIF 10	NG-SNR-12	Low demand	3 Months	SIL 2
	SIF 11	NG-SNR-13	Low demand	3 Months	SIL 2
	SIF 12	NG-SNR-14	Low demand	3 Months	SIL 2
HLP area	SIF 1	NG-SNR-15	Low demand	3 Months	SIL 2
	SIF 2	NG-SNR-16	Low demand	3 Months	SIL 2
	SIF 3	NG-SNR-17	Low demand	3 Months	SIL 2
	SIF 4	NG-SNR-18	Low demand	3 Months	SIL 2
	SIF 5	NG-SNR-19	Low demand	3 Months	SIL 2
	SIF 6	NG-SNR-20	Low demand	3 Months	SIL 2
	SIF 7	NG-SNR-23	Low demand	3 Months	SIL 2



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SIS	SIF	TAG	Mode	PTI	SIL
Electrical room CCP area	SIF 1	NG-SNR-24	Low demand	3 Months	SIL 2
	SIF 2	NG-SNR-25	Low demand	3 Months	SIL 2
	SIF 3	NG-SNR-26	Low demand	3 Months	SIL 2
	SIF 4	NG-SNR-27	Low demand	3 Months	SIL 2
	SIF 5	NG-SNR-28	Low demand	3 Months	SIL 2
	SIF 6	NG-SNR-29	Low demand	3 Months	SIL 2
	SIF 7	NG-SNR-30	Low demand	3 Months	SIL 2
	SIF 8	NG-SNR-31	Low demand	3 Months	SIL 2
	SIF 9	NG-SNR-32	Low demand	3 Months	SIL 2
	SIF 10	NG-SNR-33	Low demand	3 Months	SIL 2
	SIF 11	NG-SNR-34	Low demand	3 Months	SIL 2
	SIF 12	NG-SNR-35	Low demand	3 Months	SIL 2