

Declaration of Functional Safety Certification (SIL)

Client name	RAE Systems (Shanghai) Inc.
Order No.	1140031574 dated 2018-11-26 190101295 dated 2019-03-18
Customer Order.	HWSH20160901 dated 2016-09-13
Product	Fixed gas detector FGM-6X00X series, Rev 2.00
Type designation	FGM-6100, FGM-6100S, FGM-6200, FGM-6200S, FGM-6300, FGM-6300S

Hereby we declare that the functional assessment of safety related fixed gas detector FGM-6X00X series in order to prove compliance with the requirements of the relevant functional and safety standards (EN 45544-1, EN 45544-2, EN 60079-29-1, SIL 2 / SC 3 acc. to IEC 61508 and EN 50402) and can be used in combination with an external safety device for monitoring of hazardous flammable and toxic gas or vapour concentrations in a HFT=0 architecture up to SIL 2 and in a HFT=1 architecture up to SIL 3. with is under assessment by TÜV Rheinland now.

Regarding the project status:

- Concept phase and Main inspection phase assessment for Fixed gas detector FGM-6X00X series finished and achieved a positive result from TÜV Rheinland GC side
- Now the Safety FGM-6X00X series is in certification phase and product certificate is expected to be issued by certification body once the positive result is achieved without any open items.

TÜV Rheinland (China) Ltd.
Industry Services

Functional Safety & Cybersecurity Unit

