



Annex I

No. 1N200727.SYECD99

- The use of the product must obey the required rules to conservation of SIL 3 properties. These rules are recalled in the §6 of the Assessment Report reference.
- The product version of hardware components used for validation and type tests are the following:

Component	Model
Gas Detector	YA-D100, YA-D200, YA-D200Plus, GT-YA-D300F, GY-YA-D300F, GQ-YA-D300T, GM-YA-D300T, GT-YA-D400F, GY-YA-D400F, GQ-YA-D400T, GM-YA-D400T

- Acceptable environmental constraints for the system are stated in the safety manual. These elements must be checked for each integration of the product.
- The SIL 3 capable certified Safety Instrumented Function of the product is the following:
 - SF1: To Close on demand.
 - SF2: To Open on demand.
- Hypothesis used for calculations are presented here under: The mode of operation is Low demand, which means less than 1 trip demand each year;

Component architecture	SIL Capability	Demand frequency	PFD
1oo1 configuration	SIL2	Low	9.27E-04
1oo2 configuration	SIL3	Low	2.19E-04

Safety function	Failure rate	Undetected dangerous failure rate	Tests intervals	MTR
SF1	4.19E-05	4.49E-07	12months	48h
SF2	4.37E-05	4.68E-07	12months	48h

- The Safety Integrated Level of the safety function using the product shall be calculated taking into account the characteristics of the whole system.