

Annex I



No. 3B190520.STDT51

Test Report no. MTF(19)051701SR

1. SIL 2 Capability:

The product has met manufacturer design process requirements of Safety Integrity Level (SIL)2. These are intended to achieve sufficient integrity against systematic errors of design by the manufacturer.

2. A Safety instrumented Function (SIF) designed with this product must not be used at a SIL level higher than stated.

3. Random Capability:

The SIL limit imposed by the Architectural Constraints for each element.

4. Failure rates for the product in FIT*

For product used in a final element assembly, SIL must be verified for the specific application using the following failure rate data.

Model	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}
FLODEM	28	24	24	7

5. SIL Verification: The Safety Integrity Level (SIL) of an entire Safety Instrumented Function (SIF) must be verified via a calculation of PFD_{AVG} considering redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each subsystem must be checked to assure compliance with minimum hardware fault tolerance (HFT) requirements.

6. The following documents are a mandatory part of certification:

Assessment Report: MTF(19)051701SR Assessment Report

Safety Manual: Electromagnetic flow meter Instruction Book

* FIT = 1 failure / 10E9 hours