

SIL Declaration of Conformity

Functional safety of level measuring device according to IEC 61508-2 1999

AMETEK Drexelbrook
205 Keith Valley Rd. Horsham Pennsylvania 19044

declares as manufacturer, that the level measuring device

Intellipoint RXTX Series

Is suitable for the use in a safety instrumented system for **SIL 1** (overflow protection) according to standard IEC61508-2, Sec. 7.4.3.1 1999, if the safety instructions are observed.

The data in this declaration provides the required hardware failure data and does not contain any software assessment required for the full functional safety requirements of IEC 61508

The third party FMEDA with analysis of the safety critical and dangerous faults provides, under the assumption of an annual functional test cycle the following parameters:



SIL (Safety Integrity level)	:	1
HFT (Hardware Fault tolerance)	:	0
SFF (Safe failure fraction)	:	88.7
PFDAvg (Fail to Danger)	:	5.0 x 10 ⁻⁴
λ_{du} (failure rate dangerous undetected faults)	:	116 FIT
λ_{dd} (failure rate dangerous detected faults)	:	605 FIT
λ_{su} (failure rate safe undetected faults)	:	287 FIT
λ_{sd} (failure rate safe detected faults)	:	17 FIT



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Date

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