

SIL DECLARATION OF CONFORMITY MANUFACTURER DECLARATION

As manufacturer

PR electronics A/S
Lerbakken 10
DK-8410 Rønde

hereby declares that the following product:

Type: 5437xxSx/6437xxSx

is suitable for the use in systems up to Performance Level "d" according to ISO-13849, if the appropriate instructions are observed.

The reliability data summarized in the following table are the result of SIL assessments according to IEC-61508 carried out on the PR 5437 and PR 6437 temperature transmitters.

The SIL assessment consists of FMEDA's done by Exida updated with calculations of reliability data according to ISO-13849.

The assessments are documented in the FMEDA reports

- FMEDA_PR_5437_V1R5.pdf
- FMEDA_PR_6437_V1R0.pdf

Product	Configuration	Description	PFHd: [1/h]	Resulting PL:	MTTFd: [years]
5437xxSx	Single Sensor	Single RTD/TC input	2,72E-08	d	243
5437x2Sx	Dual Sensor	Dual RTD/TC input	3,47E-08	d	225
	Redundant Sensor (Sensor drift)	Dual RTD/TC input Sensor drift error detection enabled	2,23E-08	d	224
6437xxSx	Single Sensor	Single RTD/TC input	2,80E-08	d	237
6437x2Sx	Dual Sensor	Dual RTD/TC input	3,44E-08	d	225
	Redundant Sensor (Sensor drift)	Dual RTD/TC with sensor drift error detection enabled	2,30E-08	d	220

Roende, 25 August 2025



Stig Lindemann, CTO
Manufacturer's signature