



SIL DECLARATION OF CONFORMITY

Manufacturer: ABB Automation Products GmbH
Address: Borsigstraße 2 – D-63755 Alzenau
Product name: Temperature Transmitter
TH02, TH02-EX, TH102, TH102-EX, TH202, TH202-EX

Functional safety according to IEC 61508 / IEC 61511

We as the manufacturer declare that the a.m. products are suitable for the use in a safety related application up to SIL 2 according to IEC 61511-1, provided that the attached safety instructions are observed. The assessment of the safety critical and dangerous random errors results, in case of an annual function test, in the following parameters:

SIL (Safety integrity level): 2 **Type: B**

HFT (Hardware failure tolerance): 0¹⁾ (one-channel application)

Transmitter Type	Measuring Range	SFF	PFDav	$\lambda_{dd} + \lambda_s$	λ_{du}
TH02/102/202, TH02/102/202-EX	according to IEC751, according to IEC584	75 %	$6,60 \cdot 10^{-4}$	471 FIT	151 FIT
TH02/102/202, TH02/102/202-EX with Thermocouple low stress	according to IEC584	92 %	$1,76 \cdot 10^{-3}$	5221 FIT	401 FIT
TH02/102/202, TH02/102/202-EX with 4-wire RTD low stress	according to IEC751	93 %	$7,49 \cdot 10^{-4}$	2451 FIT	171 FIT
TH02/102/202, TH02/102/202-EX with 2/3-wire RTD, low stress	according to IEC751	78 %	$2,41 \cdot 10^{-3}$	2071 FIT	551 FIT

1) according to chapter 11.4 of IEC 61511

For the prior-use investigation the instrument including the modifications was analysed.

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Date


Harald Müller
Head of Hardware Development


Wilhelm Mergler
Head of Quality Management