



SIL DECLARATION OF CONFORMITY

Manufacturer: ABB Automation Products GmbH
Address: Borsigstraße 2 – D-63755 Alzenau
Product name: Temperature Transmitter TTH300, TTF300 und TTF350

Functional safety according to IEC 61508

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 61508 Edition2000, 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:

Software revision: 01.01.03

Hardware revision: 1.05 und 1.06

HFT (Hardware failure tolerance): 0

SIL (Safety integrity level): 2 (see Table)

Type: B


Transmitter Type	Measuring Range	SIL-Level	SFF	PFDav	λ_{dd} λ_{du}	λ_{sd} λ_{su}
TTH300, TTF300, TTF350 Electronic	acc. IEC751, acc. IEC584, mV – Input, Ohm – Input	2	91 %	$1,79 \cdot 10^{-4}$	327 FIT 41 FIT	0 FIT 110 FIT
TTH300, TTF300, TTF350 Redundanz Mode, Drift with Thermocouple, mV-Input high stress extension wire	acc. IEC584, -125 mV... +1100 mV	2	99 %	$1,04 \cdot 10^{-3}$	40133 FIT 238 FIT	0 FIT 110 FIT
TTH300, TTF300, TTF350 Redundanz Mode, Drift with 2/3-wire RTD, Ohm-Input high stress extension wire	acc. IEC751 0 ... 5000 Ohm	2	98 %	$9,98 \cdot 10^{-4}$	19143 FIT 228 FIT	0 FIT 113 FIT


Transmitter Type	Measuring Range	SIL-Level	SFF	PFDav	λ_{dd} λ_{du}	λ_{sd} λ_{su}
TTH300, TTF300, TTF350 Redundanz Mode, Drift with Thermocouple and 2/3- wire RTD high stress extension wire	acc. IEC751 acc. IEC584	2	99 %	$1,02 * 10^{-3}$	29638 FIT 233 FIT	0 FIT 113 FIT
TTH300, TTF300, TTF350 with Thermocouple, mV Input high stress close coupled	acc. IEC584, -125 mV... +1100 mV	2	94 %	$6,17 * 10^{-4}$	2227 FIT 141 FIT	0 FIT 110 FIT
TTH300, TTF300, TTF350 with 4-wire RTD, Ohm high stress extension wire	acc. IEC751 0 ... 5000 Ohm	2	98 %	$6,17 * 10^{-4}$	10227 FIT 141 FIT	0 FIT 110 FIT
TTH300, TTF300, TTF350 with 2/3-wire RTD, Ohm high stress close coupled	acc. IEC751 0 ... 5000 Ohm	2	97 %	$2,42 * 10^{-4}$	2236 FIT 55 FIT	0 FIT 113 FIT

*) Remark 1 FIT = $1 * 10^{-9}$, TTH300, TTF300 and TTF350 ordering code CS

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Date


i.v. Reinier Laurinat
Head of Quality Management


i.A. Harald Müller
Head of Hardware Development