

CERTIFICATE FUNCTIONAL SAFETY DATA SHEET®

Holder	Siemens AG Karlsruhe Germany			
Compliant Item	SITRANS TF with TH200, TH300			
Intended application	Temperature transmitters in the process industry			
Basis of testing	IEC 61508:1999 IEC 61511:2003			
Report	207.104.3			
Assessment	Proven in use			
Functional Safety Data				
Safety function	See technical report			
Mode	Low demand		Low demand	
Type	B		B	
Hardware fault tolerance	0		1	
Failure rates (FIT)	SD = 0.00	DD = 311	SD = 0.00	DD = 473
	SU = 238	DU = 194	SU = 238	DU = 32.3
Safe failure fraction	74%		96%	
Diagnostic coverage	62%		94%	
PFDavg (1Y, MTTR = 72h, Beta=5%)	8.50E-04		8.77E-06	
PFSavg (1Y)	2.61E-05		1.02E-04	
Safety Integrity Level Capability	2 - IEC 61511		3 - IEC 61511	
Spurious Trip Level Capability	5		4	

Date 2012-10-02

Certifier

