

CERTIFICATE FUNCTIONAL SAFETY DATA SHEET®

Holder	Siemens AG Karlsruhe Germany
Compliant Item	SITRANS SL
Intended application	The above listed product is used as a in-situ gas analyser (O2) for the process industry
Basis of testing	IEC:61508:2010 IEC 61511:2003
Report	270.108.115
Assessment includes	<input type="checkbox"/> Management of Functional Safety <input checked="" type="checkbox"/> Hardware requirements <input checked="" type="checkbox"/> Reliability requirements <input checked="" type="checkbox"/> Software requirements <input checked="" type="checkbox"/> User Documentation
Functional Safety Data	
Safety function	See technical report
Mode	Low demand
Type	B
Hardware compliance route	2 _H
Systematic compliance route	2 _S
Systematic Capability	SC1
Hardware fault tolerance	0
Failure rates (FIT)	SD = 0 SU = 739 DD = 2480 DU = 1170
Diagnostic coverage	68%
PFDavg (1Y)	5.1E-03
PFSavg (1Y)	3.38E-03
Safety Integrity Level Capability	1
Spurious Trip Level Capability	3
Date	2014-05-08

**Certifier**