

SIL Declaration

Manufacturer LABOM Mess- und Regeltechnik GmbH
 Im Gewerbepark 13, 27798 Hude, Germany

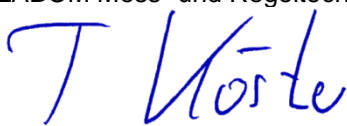
Functional Safety according to IEC/EN 61508

For type series SIL2 compliant pressure transmitter COMPACT, type series CB60.., CE61.. and CC60..

In accordance with the specifications and safety instructions the devices are suitable for use in safety related systems as per IEC/EN 61508.

output signal	4...20 mA 2-wire technology	0...20 mA or 0...10 V 3-wire technology	4...20 mA 3-wire technology
safety integrity level	SIL 2	SIL 2	SIL 2
architecture	1oo1	1oo1	1oo1
subsystem type	A	A	A
hardware fault tolerance	HFT = 0	HFT = 0	HFT = 0
proof test interval	T ₁ =1 year	T ₁ =1 year	T ₁ =1 year
dangerous failure rate	$\lambda_{DU}=5,10 \cdot 10^{-8}$ 1/h $\lambda_{DD}=7,64 \cdot 10^{-8}$ 1/h	$\lambda_{DU}=7,37 \cdot 10^{-8}$ 1/h $\lambda_{DD}=3,99 \cdot 10^{-8}$ 1/h	$\lambda_{DU}=4,22 \cdot 10^{-8}$ 1/h $\lambda_{DD}=7,14 \cdot 10^{-8}$ 1/h
safe failure rate	$\lambda_{SD}=2,73 \cdot 10^{-9}$ 1/h $\lambda_{SU}=7,48 \cdot 10^{-8}$ 1/h	$\lambda_{SD}=1,80 \cdot 10^{-9}$ 1/h $\lambda_{SU}=7,75 \cdot 10^{-8}$ 1/h	$\lambda_{SD}=2,70 \cdot 10^{-9}$ 1/h $\lambda_{SU}=7,66 \cdot 10^{-8}$ 1/h
safe failure fraction	SFF=75,1%	SFF=61,8%	SFF=78,1%
probability of failure on demand	PF _D =2,24·10 ⁻⁴	PF _D =3,24·10 ⁻⁴	PF _D =1,86·10 ⁻⁴
probability of failure per hour	PF _H =5,10·10 ⁻⁸ 1/h	PF _H =7,37·10 ⁻⁸ 1/h	PF _H =4,22·10 ⁻⁸ 1/h

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 LABOM Mess- und Regeltechnik GmbH



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