

Microx ProSafe SIL2 Factory Calibration Certificate



System overview			
System order code:	MPS-BC		
Monitor: Microx ProSafe SIL2, O2-Safety-Interface			
Type label:	GIda1011-000-0	Serial Number:	C810589 - 2
channel 1 / sensor 1: O2-Sensor 0.1%-23.5% O2			
Type label:	SO-D3e250-A050M	Serial Number:	C810592 - 2
channel 2 / sensor 2: O2-Sensor 0.01%-2.35% O2			
Type label:	SO-D3e025-A050M	Serial Number:	C810590 - 2
Safety parameters - activation / deactivation of Interlock Relays			
deactivation level / O2-safety treshold (Interlock Relays will open if exceeded)			
sensor 1:	2.00 vol.% O2	sensor 2:	2.00 vol.% O2
activation level due to switching hysteresis (Interlock Relays will close below)			
sensor 1:	1.75 vol.% O2	sensor 2:	1.75 vol.% O2

Factory calibration check against traceable O2-reference gas mixtures			
channel 1 / sensor 1:			
reference gas :	20.85 ±0.209 vol.% O2		
digital output ch1:	20.88 vol.% O2	check range: 20.62 - 21.08	pass
channel 2 / sensor 2:			
reference gas :	1.01 ±0.010 vol.% O2		
digital output ch2:	0.999 vol.% O2	check range: 0.987 - 1.033	pass
channel 1+2 / sensor 1+2:			
reference gas :	Nitrogen 5.0		
digital output ch1:	0.08 vol.% O2	check range: <0.23	pass
digital output ch2:	0 vol.% O2	check range: <0.023	pass

Check of analog output and relays status at different O2-levels			
Check value just above O2-safety-threshold			
gas mixture :	2.09 vol.% O2		
digital output ch1:	2.03 vol.% O2	Relay contact ch1:	open
analog output (via Iout) ch1:	2.04 vol.% O2	Iout (4-20mA) ch1:	5.31 mA
digital output ch2:	2.086 vol.% O2	Relay contact ch2:	open
analog output (via Iout) ch2:	2.084 vol.% O2	Iout (4-20mA) ch2:	17.34 mA
Check value at O2-concentration based on customer requirements			
gas mixture :	0.100 vol.% O2		
digital output ch1:	0.13 vol.% O2	Relay contact ch1:	closed
analog output (via Iout) ch1:	0.14 vol.% O2	Iout (4-20mA) ch1:	4.09 mA
digital output ch2:	0.095 vol.% O2	Relay contact ch2:	closed
analog output (via Iout) ch2:	0.096 vol.% O2	Iout (4-20mA) ch2:	4.61 mA

testrig reference no: 2

Test Date: 28.10.2025

Manufactured and tested by SENSORE Electronic GmbH, the listed products have been fully calibrated using traceable O₂ reference gas mixtures as specified in the certificate above.

SIL 2 capability is based on the EC type examination by TUV AUSTRIA No. IN-AT-AS-MRL 20-00297A

CAUTION: To meet SIL 2 in your application please follow the instructions in the Safety Manual; please also comply with the general installation instructions of the User Manual.

Detailed product documentation can be found on the SENSORE homepage:

<https://sensore-electronic.com/product/microx-prosafe-sil2-dual-channel-oxygen-transmitter/>

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