



## **Data Sheet for Gas Measurement Transmitter PSZC 400 for the detection of oxygen O<sub>2</sub> in laboratories**



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Description	Specification	
Application	The gas transmitter is designed for oxygen monitoring with the presence of argon / helium.	
Gas	Oxygen O <sub>2</sub>	
Measuring principle	Zirkoniumdioxid ZrO <sub>2</sub>	
Measuring range	0 ... 25.0 % Vol.	Other upon request
Resolution	0.5 %	
Response time	T90 30 sec.	
Operating temperature	-10 °C. ... +50 °C. (14 °F ... 122 °F)	
storage temperature	0 °C. ... +20 °C. (32 °F ... 68 °F)	
Allowed ambient humidity	0 ... 85 % rh.	
Test gas flow rate	0.2 l/min.	
Repeatability in % of the test gas value concentration	< ± 2	
Stabilization time after restart	10 min. (Ready for calibration after 60 min.)	
Allowed air pressure	Atmosphere 0.5 ... 5 bar	
Lifetime of the measuring cells	± 8 ... 10 Jahre	
Operating voltage	17 ... 30 VDC	
Current consumption max.	50 mA	
Wiring to the gas measurement transmitters	CAN-BUS 4-wire shielded 2 x 0.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup>	
Mechanical properties	Dimensions Plastic housing Weight Protection class	B 120mm /H 90mm /T 50mm ASA-PC 240 gr. IP 65
Mounting position	Vertical	
Approvals	EN 50270 / EN 50271 / EN 50545 / IEC 61326-1:2021	
Profile laboratory <sup>(1)</sup>	Pre-alarm 19 % Vol. / Main-alarm 18.5 % Vol.	

<sup>(1)</sup> The threshold values, switch-on / switch-off delays are included in the profile (gas measuring transmitter). Alarm treatment is performed in the PS 2020 controller.

Cross-sensitivity can occur with different gases, which has an influence on the measurement result and the service life of the sensors. Attention should be paid to increased concentrations of explosive gases and vapors. The hot surfaces can lead to ignition of the gas/air mixture.

solvent concentrations are burned on the hot surfaces of the platinum electrodes or the outer aluminum oxide disks. Oxygen is consumed during the combustion. The remaining oxygen no longer corresponds to the effective oxygen concentration, which leads to a measurement error.