



Measurement method	Electrochemical Sensors (EC)			Chemiluminescence (CLD)			Photoacoustic Spectroscopy (PAS)			Non dispersive Infra-red Technology (NDIR) ADVANCED		Non dispersive Infra-red Technology (NDIR) STANDARD			Catalytic Measurement (Pellistor)			Non dispersive Ultaviolet Technology (NDUV)			
APPLICATION	Quasi-continuous measurements (air purge after >120 minutes required; measurement > 48 h not recommended)			Continuous measurements also possible in mobile use with monitoring (filters, gas process etc.)			Continuous measurements also possible in mobile use with monitoring (filters, gas process etc.)			Continuous measurements also possible in mobile use with monitoring (filters, gas process etc.)			Quasi-continuous measurements (air purge after > 60 minutes required; measurement > 48 h not recommended)			Quasi-continuous measurements (air purge after > 60 minutes required; measurement > 48h not recommended)			Continuous measurements also possible in mobile use with monitoring (filters, gas process etc.)		
MAXIMUM NUMBER OF GAS COMPONENTS	6			2 (incl. converter)			1			max. 3 (also possible in connection with NDIR-STANDARD components)		3 (also possible in connection with NDIR-ADVANCED-components)			1			3 (2-channel with NO ₂ / SO ₂ or 3-channel witz NO / NO ₂ /SO ₂)			
GAS COMPONENTS For a given gas component, one measurement method only can be chosen	Measurement	Resolution	Accuracy	Measurement Range	Resolution	Accuracy	Measurement Range	Resolution	Accuracy	Measurement Range	Resolution	Accuracy	Measurement Range	Resolution	Accuracy	Measurement	Resolution	Accuracy	Measurement Range	Resolution	Accuracy
Oxygen O ₂	021 %	0,01 vol. %	± 0,3 vol. %																		
Carbon Monoxide CO	010.000 ppm ⁽²⁾	1 ppm	± 20 ppm resp. 5% of measure- ment value ⁽¹⁾							01.000 ppm ⁽⁵⁾	1 ppm	± 2% of full scale	063.000 ppm	10 ppm	± 200 ppm resp. 3% of measure- ment value (1)						
	063.000 ppm	5 ppm	± 100 ppm resp. 10% of measure- ment value (1)																		
Carbon Dioxide CO ₂	Calculation via O ₂ -value								020 vol. %	0,01 vol. %	± 2% of full scale	020 vol. %	0,01 vol. %	±0,3 vol. % resp. 3% of measure- ment value (1)							
Nitrogen Monoxide NO	05.000 ppm	1 ppm	± 5 ppm resp. 5% of measurement value (1)	0-1.000 ppm	0,1 ppm	± 2% of full scale													0300 (2.000) ppm	0,1 ppm	± 3 ppm (1 % of measure ment value)
	0500 ppm	0,1 ppm	± 2 ppm resp. 5% of measurement value (1)																		
Nitrogen Dioxide NO ₂	01.000 ppm	1 ppm	± 5 ppm resp. 5% of measurement value (1)	0-1.000 ppm ⁽⁴⁾	0,1 ppm ⁽⁴⁾	± 2% of full scale	0-200 ppm	0,1 ppm	± 2% of full scale										0300 (2.000) ppm	0,1 ppm	± 3 ppm (1 % of measure ment value)
	0100 ppm	0,1 ppm	± 5 ppm rep. 5% of measurement value (1)																0100 ppm	0,1 ppm	± 2 ppm resp. 2 of measuremen value (1)
Nitrogen Oxides NO _z	calculated out of NO/NO, Measurement			via converter: Transformation of NO ₂ to NO ₂ + measurement via CLD: No original NO ₂ measurement possible Recommendation: Combination of NO measurement (CLD) and NO ₂ measurement (PAS)			In combination with CLD = perfect for an exact and continuous NO _s measurement														
Sulphur Dioxide SO ₂	05.000 ppm	1 ppm	± 10 ppm resp. 5% of measure- ment value (1)							01.000 ppm ⁽⁵⁾	1 ppm	± 2% of full scale							0300 (2.000) ppm	0,1 ppm	± 3 ppm (1 % of measure ment value)
																			0100 ppm	0,1 ppm	± 2 ppm resp. 2 of measuremen value (1)
Hydrogen H ₂	020.000 ppm	1 ppm	±100 ppm resp. 5% of measure- ment value ⁽¹⁾																		
Hydrogen Sulphide H ₂ S	01.000 ppm	1 ppm	±10 ppm resp. 5% of measurement value (1)																		
Hydrocarbons C _x H _y (calibrated on CH ₄)																04 vol. %	0,01 vol. %	upon request			
Hydrocarbons C _x H _y (calibrated on CH ₄)													030.000 ppm	10 ppm	± 50 ppm resp. 3% of measure- ment value ⁽¹⁾						
Hydrocarbons C _x H _y (calibrated on C ₃ H ₈)													02.000 ppm	1 ppm	± 4 ppm resp. 3% of measurement value (1)						