

	EUROLYZER S1
Systronik Article No.	M052 ...
Oxygen (O₂) measurement	
Range	0 ... 21 Vol.-% (UK, IN, AU: 0 ... 20.9 Vol.-%)
Accuracy	±0.2 Vol.-% RDG
Resolution	0.1 Vol.-% (CN: 0.01 Vol.-%)
T90	<30 seconds
Sensor Type	Electrochemical cell (4Ox_LL)
Carbon Monoxide (CO) measurement with H₂ compensation	
Range	0 ... 4,000 ppm (max. 10,000 ppm)
Accuracy	±5 ppm (<50 ppm) ±5 %RDG (>50 ppm ... 4,000 ppm)
Resolution	1 ppm
T90	<60 seconds
Sensor Type	Electrochemical cell (A5F+)
Nitrogen Oxide (NO) measurement	
Range	0 ... 2,000 ppm
Accuracy	±5 ppm (<50 ppm) ±5 % RDG (>50 ppm)
Resolution	1 ppm
T90	<60 seconds
Sensor Type	Electrochemical cell (5NF)
Nitrogen Oxide Low (NOL) measurement	
Range	0 ... 300 ppm
Accuracy	±2 ppm (<40 ppm) ±10 % RDG (>40 ppm)
Resolution	0.1 ppm
T90	<60 seconds
Sensor Type	Electrochemical cell (5NFL)
Carbon Dioxide (CO₂) measurement (calculated)	
Range	0 ... CO2max
Accuracy	±0.2 Vol.-%
Resolution	0.1 Vol.-%
T90	<30 seconds
Sensor Type	Calculation from O ₂ sensor



Draft / Differential pressure measurement	
Range	± 70 hPa (Draft) / ± 150 hPa (diff. pressure)
Accuracy	± 0.02 hPa (<2.00 hPa) ± 1 % RDG (>2.00 hPa)
Resolution	0.01 hPa (<20 hPa) 0.1 hPa (>20 hPa)
Max. overload	1350 hPa
T90	<10 seconds
Sensor Type	Piezoresistive sensor
Pitot measurement	
Range	0.5 ... 70 m/s
Accuracy	± 0.8 m/s
Resolution	0.1 m/s
T90	<20 seconds
Sensor Type	Piezoresistive sensor
Flue Gas Temperature measurement	
Range	0 °C ... +1,150 °C
Accuracy	± 1 °C + 1 digit (<300 °C) ± 1 % RDG (>300 °C)
Resolution	0.1 °C
T90	<30 seconds
Sensor Type	Thermocouple Type-K (NiCr-Ni)
Ambient Temperature measurement	
Range	-20 °C ... +200 °C
Accuracy	± 3 °C + 1 digit (-20 < 0 °C) ± 1 °C + 1 digit (0 < +200 °C)
Resolution	0.1 °C
T90	<30 seconds
Sensor Type	Thermocouple Type-K (NiCr-Ni)

Abbreviations: RDG = deviation of reading value, ppm = particle per million, Vol.-% = percent of volume

Subject to technical changes!



General Data	
Display	4.3" High Resolution Touch Screen
Connections Gas: Draft: Pressure: Temperature:	1 x Ø 8 mm 1 x Ø 7 mm 1 x Ø 8 mm 2 x Thermocouple socket
Memory	Internal memory (up to 10,000 measurement reports)
Data Interface	Bluetooth 5.0 (BLE) (2.4 GHz; max 2.5 mW / 4 dBm) IR (EUROprinter) QR-Code USB-C
Measurement Units Gas: Pressure: Temperature:	Vol.-%, ppm, mg/m ³ , mg/kWh, mg/MJ Pa, hPa, kPa, mbar, bar, mmWs, mmHg, inHg, psi °C, °F
Battery / Power Supply	Rechargeable Lithium-Ion battery (3.6 V / 5,000 mAh) / External Power Adapter
Power Supply / Charger Mode	Via USB-C socket and AC-Adapter
Expected Operating Time (Measuring Mode)	12 hours
Operating Temperature	0 °C ... +40 °C
Storage/Transport Temperature	-20 °C ... +50 °C
Air pressure range	750 hPa ... 1100 hPa
Humidity range	20 % to 80 % rH
Housing Material	2K ABS + PC
Housing Color	RAL 5015 (sky blue) and RAL 5011 (steel blue)
Dimensions (HxWxD)	218 x 80 x 44 mm
Protection Rating	IP42 (DIN EN 60529)
Weight	500 g – 550 g (depending on sensors)
Keypad	Foil Keypad (1x scroll-wheel & 2x buttons)
Keypad Color	RAL 7021/5015/4008/9016
Directives & Standards	2014/30/EU (CE), DIN EN 50379, VDI 4206, WEEE/RoHS, 2014/53/EU (RED), 2011/65/EU (RoHS)
Approvals, tests and conformities	1. & 44. BImSchV, TÜV Süd tested (VDI 4206)

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