

	BLUELYZER ST
Systronik Article No.	M044 ...
Oxygen (O₂) measurement	
Range	0 ... 21 Vol.-% (UK, IN, AU: 0 ... 20.9 Vol.-%)
Accuracy	±0.2 Vol.-% RDG
Resolution	0.1 Vol.-%
T90	<30 seconds
Sensor Type	Electrochemical cell (4OxV)
Carbon Monoxide (CO) measurement	
Range	0 ... 2,000 ppm (max. 6,000)
Accuracy	±5 ppm (<50 ppm) ±5 %RDG (>50 ppm)
Resolution	1 ppm
T90	<60 seconds
Sensor Type	Electrochemical cell (4CM)
Carbon Monoxide (CO_{high}) measurement	
Range	0 ... 2.0 Vol.-% (= 20,000 ppm)
Accuracy	±10 ppm (<200 ppm) ±5 % RDG (>200 ppm)
Resolution	1 ppm
T90	<60 seconds
Sensor Type	Electrochemical cell (4MF)
Draft / Pressure measurement	
Range	±70 hPa (Draft) / ±150 hPa (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



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	2.8" TFT (240 x 320 Pixel)
Connections	
Gas:	1 x Ø 8 mm
Pressure:	1 x Ø 7 mm (Benelux: Ø 8 mm)
Temperature:	2 x Thermocouple socket
Memory Media	microSD memory card (<16 GB)
Data Interface	Bluetooth Smart (2.4 GHz; max 2.5 mW / 4 dBm) IR (EUROprinter) QR-Code
Measurement Units	
Gas:	Vol.-%, ppm, mg/m ³ , mg/kWh, mgMJ
Pressure:	Pa, hPa, kPa, mbar, bar, mmWs, mmHg, inHg, psi
Temperature:	°C, °F
Battery / Power Supply	Rechargeable Lithium-Ion battery (3.6 V / 1,800 mAh) / External Power Adapter
Power Supply / Charger Mode	Via USB socket and AC-Adapter (no data transfer via USB port possible)
Expected Operating Time (Measuring Mode)	12 hours ('Eco' Mode) 10 hours ('Automatic' Mode) 8 hours ('Normal' Mode)
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	Plastic (PA)
Housing Color	RAL 5015 (sky blue)
Dimensions (HxWxD)	143 x 66 x 37 mm (incl. Protection Case)
Protection Rating	IP42 (DIN EN 60529)
Weight	275 g
Protection Case Material	Soft Plastic (TPE)
Protection Case Color	RAL 5011 (steel blue)
Keypad	Foil Keypad (5 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)
EMC	DIN EN 50270:2015-10
Interference:	DIN EN 55022
Noise immunity:	DIN EN 61000-4-3
ESD:	DIN EN 61000-4-2
Approvals, tests and conformities	TÜV Süd tested (VDI 4206)

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