E.ST

ecom-ST - the stationary gas analyzer for autonomous, semi-continuous emissions monitoring

Process Monitoring, Emissions Verification, Efficiency & More...



STATIONARY GAS ANALYSIS

Made in Germany

Conserve resources

Reduce fuel, energy and equipment downtime. Provide for predictive maintenance through the detection of anomalies and yield losses.

Increase efficiency

How efficiently you generate process heat might be crucial for your production process.

Enhance safety

Monitor emissions and processes to trigger alerts when levels reach unsafe thresholds.

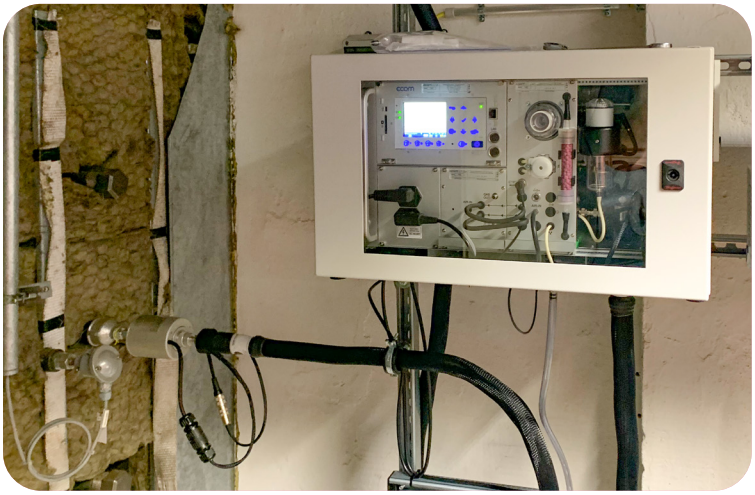
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ecom®
Measurement Technology

"The earlier an inefficiency is recognized in a process, the sooner it can be eliminated."

THE STATIONARY SOLUTION

Semi-continuous emissions monitoring to detect yield losses



- Data transfer via Modbus RTU via RS485 or Modbus TCP via Ethernet
- Automatic measuring intervals with programmable measurement cycles between 10 minutes and 65 minutes (up to 144 measurements/day)
- Up to 6 measured gases in addition to calculated values
- Industrial, low-maintenance gas pump for quick response (allows for longer sample trains)
- Integrated sample conditioning with automate moisture removal for long-term measurements
- Modular design fits into 19 inch rack

Fully customizable cabinet (optional)



- External & automated calibration
- High suction gas pump (10 lpm) for quick gas sampling
- PLC, analog and digital outputs
- Large back-lit graphic display
- Blow-back cleaning system
- Five-filter port support
- Multi-sample port support
- Heating/ cooling with thermostat



As of 10/26. Technical and design changes as well as possible printing errors are subject to change.

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THE STATIONARY SOLUTION

Semi-continuous emissions monitoring to detect yield losses

● = Basis EC ● = Optional Pellistor ● = Optional EC ● = Optional NDIR

O_2 | CO | C_xH_y | CO % | NO | NO ExtraLow | NO_2 | NO_2 Low | SO_2 | SO_2 Low | H_2 | H_2S | CO_2 | CH_4

Technical data			√ Standard • Option	
Measured values	Range	Resolution	Accuracy*= Higher value applies	
Maximum number of sensors				6
O_2	0...21 %	0,01 vol. %	± 0,3 vol. %	√
CO (H_2-comp.)	0...2,500 ppm (10.000 ppm)	1 ppm	± 20 ppm of reading*	√
CO %	0...63,000 ppm	5 ppm	± 100 of reading*	•
CO_2	0...20 %	0,1 vol. %	± 0,5 % / 5 % of reading*	•
CO_2	0...100 %	0,1 vol. %	± 5 % of measure range endvalue	•
NO	0...5,000 ppm	1 ppm	± 5 ppm of reading*	•
NO ExtraLow	0...300 ppm	0,1 ppm	± 2 ppm of reading*	•
NO_2	0...1,000 ppm	1 ppm	± 5 ppm / 5 % of reading* (1)	•
NO_2 Low	0...100 ppm	0,1 ppm	± 5 ppm / 5 % of reading* (1)	•
SO_2	0...5,000 ppm	1 ppm	± 5 ppm / 5 % of reading* (2)	•
SO_2 Low	0...100 ppm	0,1 ppm	± 5 ppm / 5 % of reading* (2)	•
H_2	0...20,000 ppm	1 ppm	± 100 ppm / 5 % of reading*	•
H_2S	0... 1,000 ppm	1 ppm	± 10 ppm / 5 % of reading*	•
CH_4	0...5 %	0,01 vol. %	± 0,2 vol. % / 5 % of reading*	•
C_xH_y	0...4 %	0,01 vol. %		•

Technical specifications	
Calculated values	Range
CO_2	0...$CO_{2\,max}$
Combustion efficiency (ETA)	0...120 %
Excess air (lambda)	>1
Losses qA	0...100 %
Dew point	x° F
mg/m^3	x mg/m^3
mg/kWh	x mg/kWh
O_2 correction	x % O_2

Notes:
(1) NO and NO_2: Either both as normal or low version - a mix of both sensor types is not possible.

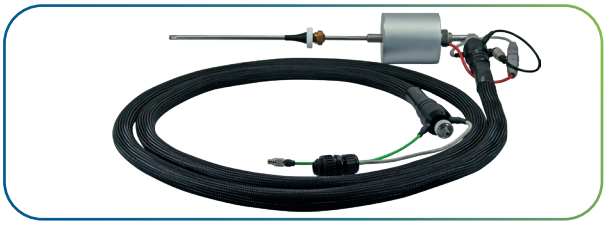
(2) Only one type SO_2 sensor (normal or low version) can be added to the analyzers configuration.

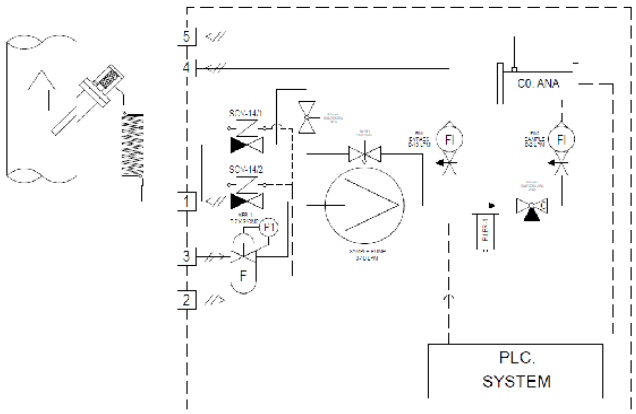
Heated gas sampling syste SBK2			
Measured values	Range	Resolution	Accuracy
T-Gas	0...932 °F	0.1°F	± 2 °F / 1,5 % of reading*

HEATED GAS SAMPLING SYSTEM SBK2 (optional)

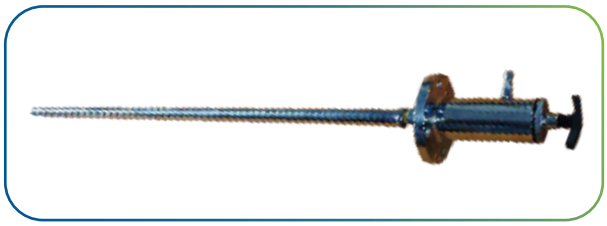
Using a heated sampling system limits losses when measuring water-soluble substances (NO_2 and SO_2) .







GAS SAMPLING PROBES - 1,2 or 3 Meters (optional)



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