

COMPLETE CEM SYSTEM EMISSIONS MONITORING

The multi-component gas analyzer SWG 300-1 is based on extractive, cold-dry method and uses NDIR modules, which measure continuously, selectively and highly accurately within the ppm range.

NO2 is catalytically converted into NO for true NOx measurements.

Oxygen analysis is based on zirconium oxide cell, paramagnetic cell or "long-life" electrochemical cell.

KEY FEATURES:

BCDate Mathematica

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- Sampling probes for high temperature or high dust installations
- Single and Dual Heated Sample Lines
- Gas Conditioning Systems with heated acid mist catch
- 19" rack Main Control Unit
- Multi-stack sampling with auto or manual sequential switching
- Internal flow rate monitoring and alarming
- Auto Zero & Auto Calibration
- 8 Analog and RS485 Modbus outputs
- PC Data Visualization Software
- Easy access, lockable enclosures
- Rack, weather-proof, or Ex Zone 2
- Compliance level performance

DESIGNED FOR THE TOUGHEST APPLICATIONS

- Boilers
- Refineries & Petro-Chemical
- Power Plants
- Blast Furnace Ovens
- Steel Reheating Furnaces
 - Gas Incinerators



Easy to service!

The SWG 300 is easy to swing-open. All important parts are easy accessible and easily serviced.







TECHNICAL SPECIFICATIONS

DATA SUBJECT TO CHANGE WITHOUT NOTICE

Meas	surement components	Measuring range	Accuracy	Measuring cell
	-	0.05.01/1.0/		
02	Oxygen	0 25.0 Vol-%	± 0.2 Vol-% abs.	paramagnetic
02	Oxygen	0 25.0 VOI-%	± 0.2 VOI-% abs.	zirconium
02	Oxygen	021.0 001-%	± 0.2 v01-% abs.	electrochemical
NO2 Nitrogen dioxide		catalytic conversion in NO min. 90% conversion efficiency (option)		
1.gas i	ofrared bench	min measuring range	may measuring range	linearity error
CO	Carbon monoxide	0100ppm	0500ppm	2 % of full scale
NO	Nitric oxide	0200ppm	02.000ppm	2 % of full scale
SO2	Sulfur dioxide	0100ppm	01,000ppm	2 % of full scale
			· ·	
2-gas in	nfrared bench	min. measuring range	max. measuring range	linearity error
NO	Nitric oxide	02,500ppm	05,000ppm	3 % of full scale
NO2	Nitrogen dioxide	0500ppm	01,000ppm	3 % of full scale
2-gas infrared banch min measuring range may measuring range linearity error				
CO	Carbon monovide	0 1 000ppm		3 % of full scale
<u> </u>	Carbon diovide	0 3 %	0 30 %	3 % of full scale
CO2 SO2	Sulfur dioxide	0 3 //	0 5 000ppm	2 % of full scale
302		01,000ppm	0	3 % of full scale
4-gas i	nfrared bench	min. measuring range	max. measuring range	linearity error
со	Carbon monoxide	0200ppm	01,000ppm	2 % of full scale
CO2	Carbon dioxide	04%	0 20 %	2 % of full scale
NO	Nitric oxide	0200ppm	01,000ppm	2 % of full scale
SO2	Sulfur dioxide	0200ppm	01,000ppm	2 % of full scale
CH4	Methane instead of SO2	0200ppm	01,000ppm	2 % of full scale
Colorda	to develop a			
Calculated values		1% of constant and		
Repeatability		1 70 UI SIIIdilesi IIIedsulliig Idilge		
Detection limit		approx. So seconds of the analyzer sample gas milet port		
Zoro drift		with ALITOZERO: negligible		
Span drift		with AUTOCAL (Autor) - 22% of measuring range / 2 weeks		
Temperature influence		without a of coactiving range por 10%		
Measured value stability		The aforementioned data are valid on condition that ambient conditions		
Weasured value stability		(e.g. sample flow, air temperature and pressure) are constant.		
General specification				
Warm-up time		1h minimum		
Sample gas conditioning		integrated gas cooler with dew point = +3 $^{\circ}$ C		
Sample gas filtration		filtering particle size < 1μ		
Sample gas monitoring		flow regulation and supervision, 30 50 l/h		
Calibration		By software, calibration gases for every gas required,		
		instrument air or clean ambient air for auto-	zero	
Operat	ing temperature	41 °F +104 °F, max. 90 % rh, non condensir	ng	
Storage temperature		-4 °F +120 °F		
Ampient conditions		no use in aggresive, corrosive or very high dust environments		
Display		full granhic hacklit I CD display		
Besolution		denende on zange selertion nom or %		
Data transfer		Schangel analog output 4 - 20 mA DS 485 digital (modbus PTU)		
Alarm relays		3 v notential free NO contacts		
Power supply		3.0 Voc (5.6 6.0 H / 5.0 0 75.0 W		
i ower suppry		with heated hose control (option) add 100 W/3.28' (meter)		
Internal main fuse		10 32 A 10 32 A (dependent upon length of the heated gas sampling line)		
Protection class		IP 52 (IP 65 for outdoor mounting cabinet)		
Weight		approx. 88 lbs		
Dimensions		$(H \times W \times D)$ 39.83" x 23.61" x 22.63" (1012 x 600 x 575 mm) = steel enclosure for indoor mounting		
		(H x W x D) 51.16" x 31.48" x 23.61" (1300 x 800 x 600 mm) = fiber glass enclosure for outdoor mounting		

ASKCO de México S. A. Monterrey, N. L., México Tel.: +52 (81) 8348.7447 www.askcomx.com Support and sales by:

