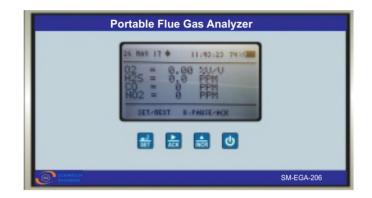


A COMPLETE, VERSATILE, MULTI FUNCTIONAL PORTABLE GAS ANALYZER FOR INSTANT AND ACCURATE DATA



SM-EGA-206

WITH OPTIONS TO USE PC INTERFACE, DATA LOGGER, INTEGRAL PRINTER, DATE & TIME

IDEAL FOR USE IN LABORATORY AND PLANT

SPECIAL FEATURES

Portable, compact and rugged.

Complete Automatic Opeaation

Graphics displays messages and values through the operation of the anl yser.

Self check facility and a special soft are ensures accurate analysis of data.

Standard Fuels with their parameters are preprogrammed. Others on request.

Batery operaating period of 6 hos.

Inbuilt Buzzer announces various stages of operation.

A mere Six key to operate the complete instrument.

Visual alarms for Low Bat, No Flow and Sensor Fault.

Automatic sampling & Anal sis for specified periods at preset intervals -

TUV Certified Instrument.

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Compact, Portable construction and simplicity of opeaation m es SoarMlich Portable Gas Analyser a valuable aid for insitute use in constantly changing measurement sites.

Its versatile modular design permits onfiguraration and u adaadatio suit specific needs. You determine the number of Sensors for your instrument from (1 to 8) or should your analyzer have a built-in printer or RS 232 Output or a smoke test probe so you pay only for what you need.

The highly ungradable SME-EGA-206 model can be AC Powered and/or Battery operated. It may include a chargeable battery, batery charger, Sampling Probe with condensate trap and an inline Micro Filter and an inbuilt Sampling Pump. It can be built to include upto 8 Nos. of Gas Sensors and Temperature Sensor, Draft/ Pessure besides the calculated parameters and have options of :

- 1. Data Logger 2. Integral Printer
- 3. RS 232 Output
- 4. Date & Time 5. Facility for Automatic anal sis for specified periods at preset intervals.

Self check of components and functions by special sof are ensures perfrfect functioning of the unit, t eby accurate analysis data. Any unacceptable deviation fom the standard stored values is displayed as an indicaation "AULT".

Instant Printout (with Time and Date) confirms the displayed readings that have been measured and calculated at the point of test. The instrument may also be instructed to sample and analyze for specified periods at preset intervals completely unatended.

Soft are Package to store and analyze the data in various manners with PC XT, AT, 386, 486.

SAMPLE TREATMENT

A condensate & Dust Trap & a low porosity in line filter to condition the sample.

Time Tested, Sturdy, High Suction inbuilt Pump.

A supervisory Electronic Circuit to continuously monior the pump against failures.

Proven Sensor Technology : Special purpose long life Sensors with cross interference filters to achieve high accuracy. Oxygen Sensor guaranteed for 4 years and other Electrochemical Sensor for 2 years. Volumetric (PPM), Quantiaate (MG/M³) analysis of desired parameters with print-outs confirming displayed readings.

Calculated Values for NOX, Fuel Efficiency, Lambda, CO2 & Diff. Temp.

Smoke Measurement - Analyzer samples a pre-calibrated volume of Flue Gas across a filter which can then be compared with the Bachrach Scale to determine the smoke density number. Customized Versions - Heated & other special probes and accessories available to measure and match customers special requirements.

DATA TREATMENT

Complete & Instant Analysis of Data : The processor digitally processes, displays and logs the data instantly.

Simultaneous display of 2 measured parameters at a time.

A real time clock and memory o store data of upto 250 complete analysis and display them later on call.

Automatic Sampling and anal sis for specified period at preset intervals.

Digital interface RS 232.

Date and time tamp.

Data can be printed on demand or transmited through a serial interface to an external personal computer for further analysis.

Choice of printout of last sample or all samples stored.

A normal Paper Impact type Printer to document the analysis results and time eference.

Continuous and table Automaatic Dispy of concentrarations ensures accuracy and stability.

Instant & easy to read display of combustion, Emission or Process Analysis Data.

APPLICATIONS

Ambient and Emissions Monitoring Stack or Exhaust Gas Analysis in Boile Power & Industrial Plants Process Analysis Fuel Efficiency Internal Combustion Engines Furnaces Quality Control Labs



SM-EGA-206 CONNECTED TO A PC

MEASURING RANGES							
	PARAMETERS	SENSORS	RANGES	RESOLUTION	ACCURACY		
1	02	Electrochemical /	a) 0 - 2% b) 25% c) 100%	0.1 %	0.5%		
		Paramagnetic					
2	СО	Electrochemical	0 - 200, 4000 PPM, 10%	1 PPM, 0.1%	± 2%		
		Infrared	5000 PPM, 5%, 20%, 50%, 100%				
3	CO Sensor	Electrochemical	a) 0 - 200, b) 4000 PPM	1 PPM	± 2 %		
	compensated for H2						
4	CO2	Calculated	0 - 25%, 99.9%	0.1 %			
5	CO2	Thermal Conductivity	0 - 99.9%	0.1 %	± 2 %		
		Infrared	1000 PPM, 2000 PPM, 5000 PPM,				
			1%, 5%, 25%, 100%				
6	NO	Electrochemical	0 - 1999, 5000 PPM	1 PPM	± 2 %		
		Infrared	3000 PPM, 1%, 5%, 25%, 100%				
7	NO2	Electrochemical	0 - 100, 1000 PPM	1 PPM	± 2 %		
8	NOX	Electrochemical / Infrared	0 - 1999, 5000 PPM	1 PPM	± 2 %		
9	SO2	Electrochemical Infrared	0 - 20, 1999 PPM	1 PPM	± 2 %		
		Infrared	2000 PPM, 8000 PPM,				
10	Cullin	Cotolutio nollitor	5%, 30%, 100%	0.1% 0.01	1.2.0/		
10	CxHx	Catalytic pellitor	0 - 100% LEL	0.1% 0.01	± 2 % ± 2 %		
		Thermal Conducti e	0-30% & 0 - 100%	0.1%	± 2 %		
11	Ch4	Calculated		0.01 m/s			
11 12	Excess Air (A)	Semi conductor	1 to INFINITY 0 -99°C	0.01 m/s 1°C	0.5%		
1	Temp. Air (Ambient)	Tc. K.	0 - 1600°C	1°C			
13 14	Temp. Gas Temp. Differenntial	Calculated	0 - 1600 C 0 - 1300°C	1°C	0.25%		
14	Pressure / Draft / DIFF		+/- 20 WG	0.01	2 %		
15	Gas Velocity	Bridge Pitot Tube	0 - 99.9 m/s	0.01 0.1 m/s	2 %		
17	Efficiency / Stack Los	Calculated	1 - 99.9 %	0.1 %			
18	Smoke	Paper Filter Method	0 - 9 Bachrach Scale	0.1 %			
19	H2S	Electrochemical	0 - 500 PPM	1 PPM	± 2 %		
20	CL2, BR2, F2	Electrochemical	0 - 200 PPM	1 PPM	± 2 %		
20	HCL / HBr / HF / HCN	Electrochemical	0 - 100 PPM	0.1 PPM	± 2 %		
22	H2	Electrochemical	0 - 2000 PPM	1 PPM	± 4 %		
	H2	Catalytic / Combustion	0 - 5 % 100 %	0.1%	± 2 %		
	112	Thermal Conducti e	0 - 100 %	0.1/0	1 2 /0		
23	Toxic (Organics)	Solid State/	0 - 10, 2000 PPM	1 PPM	± 2 %		
		Electrochemical / PID					
24	NH3	Electrochemical	0 - 100, 1000 PPM	1 PPM	± 2 %		
25	Ethylene Oxide	Electrochemical	0 - 100 PPM	0.1 PPM	± 2 %		
26	Phosphine / Arsine	Electrochemical	0-1 PPM	0.01 PPM			
	Phosgene	Electrochemical	0 - 5 PPM	1 PPM	+/-2%		
27	VOC	PID/Solid state	0-100 / 2000 PPM	1 PPM	+/- 2%		
28	C2H2 Acelelen	Infrared	0-20 VOL % 0-1000 PPM	1 PPM	+/- 2%		
29	C2H4 Ethelyne	Infrared	0-20 VOL % 0-1000 PPM	1 PPM	+/- 2%		
30	Propane	Infrared	0-20 VOL % 0-1000 PPM	1 PPM	+/- 2%		
31	N2O	NDIR	0-1000 PPM	1PPM	+/- 2%		
32	H2O	Capaciti e	0-100% RA	0.1 PPM	+/- 2%		

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SPECIFICATIONS

Display	:	Graphics LCD
Sampling	:	Through inbuilt Sampling Pump.
Zero Calibration	:	Automatic t instrument start up with fresh air sample
SPAN Calibration	:	Automatic span aeas
		1) Fresh air for oxygen
Response Time	:	30 Seconds at 95% variation.
Power Supply	:	110V or 220V & AC /Ni-cad battery pack with integral charger.
Working Temperature	:	-5 to 55°C
Storage Temperature	:	-20 to 50°C
Probe Length	:	SS 600 mm length standard (900 & 1200 mm optional)
Probe Diameter	:	8mm (12mm optional)
Connection Hose (Pobe Unit)	:	2.0 meters, special lengths on demand.
Batery Life	:	6 Hours continuous opeaation.
Data Memory	:	500 readings for each gases.
Printer	:	Impact type 24 columns.
Printing Speed	:	0.75 lines / seconds.
Alarms	:	Visual and audible, 4 Alarms
Digital Interface	:	RS 232
User Data	:	2 lines of 16 characters
Case	:	Rigid Aluminum
External Dimensions	:	280 x 210 x 185 mm
Weight (Gross)	:	< 2 kg. with bateries (approximately)
Interference Filters	:	Provided with Sensors
Line Filter	:	Replaceable 5 microns
Accessories	:	Water Trap
Preprogrammed Fuels	:	Light & Heavy Diesel Oil, Gas, Coal, Furnace Oil, Wood
		Special Fuels - preprogrammed on request.

ORDERING INFORMATION							
NO. OF SENSORS	NO. OF PARAMETERS	EXTRA					
1 TO 8	1 TO 27	 WITH SMOKE MEASUREMENT CONDENSATE TRAP 					
TYPE OF PROBES	POWER	CONFIGURATION					
0 - NIL 1 - 600 mm 2 - 900 mm 3 - 1200 mm	 220 V AC 110 V AC CHARGEABLE BATTERIES 220 V AC & CHARGEABLE BATTERIES 	0. BASIC UNIT ONLY 1. + PRINTER DATA LOGGER 2. + DATA LOGGER RS 232					
4 - 1000°C PROBE 5 - PILOT TUBE	5. 110 V AC & CHARGEABLE BATTERIES	3. + PRINTER DATA LOGGER RS 232 4. + PRINTER					

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