

CONTINUOUS GAS ANALYSERS



**A COMPLETE VERSATILE, MULTI-FUNCTIONAL, GAS ANALYSER FOR ONLINE MEASUREMENT
WITH OPTIONS TO USE WITH PC INTERFACE, DATA LOGGER, RECORDER, DATE & TIME
MICROPROCESSOR BASED SYSTEM**



FGA 461



FGA 461 EX

DESCRIPTION

The Model CA 2000 Series Multi Gas Analyser Is Suitable For The Continuous Measurement Of The Concentrations Of Gases Such As CO, CO₂, SO₂, NO, O₂, CH₄, H₂. Maximum Four Of These Components Can Be Measured In The Analyser.

The Simplicity Of Operation Makes Endee Gas Analyser A Valuable Aid For Continuous Use In Various Applications Changing The Measuring Parameters.

It's Versatile Modular Design Permits Configuration and Up-Gradation to Suit Specific Needs of Customer in Selection of Gases to Be Measured.

Optionally Endee Ca 2000 Is Available With Highly Up-Gradable Microprocessor Based Electronics Which Is Equipped With Battery Backup For Ram To Retain The Existing Set Modes In Case Of Power Failure. Any Unacceptable Deviation From The Standard Stored Values Is Displayed As An Indication "Fault".

APPLICATIONS

- Stack or Exhaust Gas Analysis
- Power & Industrial Plants
- Process Analysis
- Fuel Efficiency/Optimization of Combustion

SPECIAL FEATURES

- Alarms for Low & High and Specific Fault
- Specific Sensor as Per the Measuring Gas, Range & Application
- Sample Conditioning System Offered As Per Application
- Complete Automatic Operation
- 16 Characters, 2 Line LCD Display Messages
- Self Diagnostic Check Facility
- A Mere Six Key to Operate the Complete Instrument

SPECIFICATION

Measuring Gas & Range :	See range data.
Sensor & sampling :	Gas Ranges & Application dependent.
Display :	Digital Standard LED optional alphanumeric display
Power Supply :	100 - 290 VAC / 47 - 63 Hz
Ambient Temp. :	0-50°C
Enclosure :	High Impact Plastic
Mounting :	Field Mounted
Optional :	Flush on Panel/Table top
Warm up time :	Analysis Detector dependent
Output (Optional) :	4-20mA
Alarms :	Two Level (selectable range)
Sample Gas condition :	Temp: 0 - 50°C Pressure : Less than 1.5Kg/cm The gas should be dry & clean. Other than this suitable sample Conditioning system is required.
Calibration :	Manual, On command in microprocessor based system.

MEASURING RANGE

S.No	Parameters	Sensors	Range	Resolution	Accuracy	
1.	O ₂	Electrochemical	100 PPM	1PPM	0.5 %	
			25%, 100%	0.1%		
			Paramagnetic	0 - 25 / 100%	0.1%	± 2%
			Zirconia	0 - 1000 PPM	1 PPM	± 2%
				0.01 to 1.0% O ₂	0.01%	± 2%
				0.01 to 2.0% O ₂	0.01%	± 2%
				0.05 to 5.0% O ₂	0.01%	± 2%
2.	CO	Electrochemical NDIR	200 PPM, 2000 PPM,	1PPM	+/-2 %	
			10%, 100% V/V	0.1%		
3.	CO ₂	Thermal Conductivity NDIR	100% V/V	0.1%	+/-2 %	
			0 - 5000 PPM - 100% V/V	1PPM(0.1)	+/-2%	
4.	NO/NO _x	Electrochemical NDIR	0.1999, 5000 PPM	1PPM	+/-2 %	
5.	SO ₂	Electrochemical NDIR	200 PPM, 2000 PPM	1PPM	+/-2 %	
6.	CH ₄	Catalytic NDIR	5% V/V 100% (LEL)	0.1%	+/-2 %	
7.	H ₂	Catalytic Combustion	4%	0.1 %		
		Thermal Conductivity	100%			
8.	Moisture (Water Vapour)	Capacitive	0 - 100% Humidity or in equivalent units	0.1 %	+/-2%	
9.	Efficiency Stack loss	Calculated				

Note : Specifications and Features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. Due to endee's commitment to research, design and product improvement, specifications are subject to change without notice.



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