

GAS ANALYSER

A COMPLETELY VERSATILE, MULTI FEATURED GAS ANALYSER OF MODULAR DESIGN FOR ANALYSIS OF GASES IN THE INFRARED SPECTRA CO, CO₂, SO₂, NO, NH₃, CH₄ etc.



MODEL IR 200



MODEL IR 2000

A gas analyzer designed with tried tested & reliable technology that can handle the most demanding process applications in a single or multiple (up to six) component selective gas analysis in the PPM to 100% range. Its capabilities are further enhanced by its ability to analyze oxygen with specific Electrochemical or Paramagnetic Oxygen sensor

APPLICATIONS

- CONTINUOUS EMISSION MONITORING
- STACK / EXHAUST GAS ANALYSIS
- PROCESS ANALYSIS
- OPTIMIZATION OF COMBUSTION PROCESS
- CHEMICAL / PETROCHEMICAL
- AGRICULTURE / FOOD
- FERROUS / NON-FERROUS METALS

OPTIONS

- PARAMAGNETIC O₂ SENSOR
- EXTRA LONG LIFE OXYGEN SENSOR NOT POISONED WITH CO₂
- DATA LOGGING AND BUILT IN PRINTER
- DATE & TIME STAMP
- CUSTOM DESIGNED SAMPLE CONDITIONING SYSTEM
- 24 VOLT DC OUTPUT
- ANY SPECIAL INPUT OR OUTPUT SIGNAL

SPECIAL FEATURES

- SINGLE OR MULTIPLE GAS ANALYSIS
- NDIR ABSORPTION PRINCIPLE
- 20X4 LINE ALPHA NUMERIC LCD DISPLAY
- MICRO CONTROLLER TECHNOLOGY FAILURE
- AUTOMATIC OPERATION
- ALARMS FOR LOW & HIGH AND FAULT
- MODULAR DESIGN PERMITS
- CUSTOMER SPECIFIC CONFIGURATION
- BATTERY BACK UP RAM RETAINS
- THE SETTINGS IN CASE OF POWER
- SELF DIAGNOSTIC FACILITY
- A MERE SIX KEY OPERATION
- RS-232 OUTPUT

DESCRIPTION

IR- 2000 ON LINE & IR-200 Portable series microprocessor -controlled analyser, a unique blend of proven Technology, innovative NDIR transducers and Power full Software possesses unparalleled Performance capabilities and. virtually eliminate the need for calibration gases. Incorporating professionally engineered transducers it offers a formidable tool for measurement and control. Its versatile Modular Design and upgradable

features permit its configuration to suit customers specific application needs and ever changing requirements It is equipped with battery backup for RAM and retains the set modes even in case of power failure.

Its complete automatic operation, 20X4 Line Alpha-numeric LCD that displays messages and its self diagnostic check features complement the analyzer for its unattended operation. The precision microcontroller is embedded with powerful software capable of performing and controlling its the various functions as well as computing the complex parameters for the benefit of the operator

SPECIFICATIONS

Display	20X4 LINE Alphanumeric LCD	
Measuring principle	Infrared absorption (NDIR)	
Measuring Range		
CO ₂	40 ppm	100%
CO	1000 ppm	100%
NO	2000 ppm	100%
SO ₂	200 ppm	100%
CH ₄	3000 ppm	100%
Propane	500 ppm	100%
O ₂ Electrochemical	10 ppm	30%
O ₂ Paramagnetic	1 %	100%
Please enquire for other gases		
Max.No. of Component	Six+ oxygen	
Accuracy	±2% of range (1%) optional	
Repeatability	±0.5%	
Baseline noise	±0.5% of range	
Signal response time	t ₉₀ <2sec. (At 1 LPM) 90 T ₉₀ <1sec. (At 3 LPM) 90	
Operating Temperature	0 - 50 deg.C	
Ambient Temperature	0 - 50 deg.C	
Warm up Time	<3 min	
Power Supply	110 or 220V AC, 50 Hz (Rechargeable batteries Model R-200)	
Enclosure	Draw Aluminum (IR-200 High Impact Plastic)	
Mounting	19" Rack	
Output	4-20mA (any one selectable Parameter) - (IR-200 - NIL)	
Digital Interface	RS 232 / 485 (IR-200, RS 232)	
Alarms	Two Levels (selectable range)	

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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