

GAS ANALYZER

Model : KGA-71



**A COMPLETE VERSATILE, MULTI - FEATURED,
MICROCONTROLLER BASED GAS ANALYZER FOR
ONLINE MEASUREMENT OF GASES**



**ANALYZER CONFIGURABLE WITH
NDIR
EC**

UV SPECTROSCOPY #

FLUROSCENCE #

CHEMILUMINISCENCE #

TDLAS - TUNABLE DIODE LASER ABSORPTION SPECTROSCOPY #

PAS - PHOTO ACOUSTIC SPECTROSCOPY #

APPLICATION :

- ENVIRONMENT INDUSTRY
- MEDICAL ENGINEERING AND RESEARCH
- AGRICULTURE BIOMAS
- AUTOMOBILE
- CLEAN ROOM MONITORING
- SHIPPING INDUSTRY

TECHNOLOGY

- ▶ The Model KL - 200 series gas analyzer is suitable for the continuous measurement of the concentrations of gases such as CO, CO₂, SO₂, HF, HCL, CL₂, NO, CNG, O₂, CH₄, H₂, H₂S, NH₃, HCN, O₃.
- ▶ Maximum number of sensors depends on sensor technology required.
- ▶ The simplicity of operation makes KL - 200 analyzer, a valuable aid for continuous use in various applications, changing the measuring parameters.
- ▶ Its versatile modular design permits configuration and up-gradation to suit specific needs of customer in selection of gases to be measured.
- ▶ KL - 200 is available with highly up-gradable micro-controller 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".
- ▶ KL - 200 gas analyzer is highly used and recommended for various industrial applications.
- ▶ Sensor technology depends upon the application of industry.

SPECIAL FEATURES

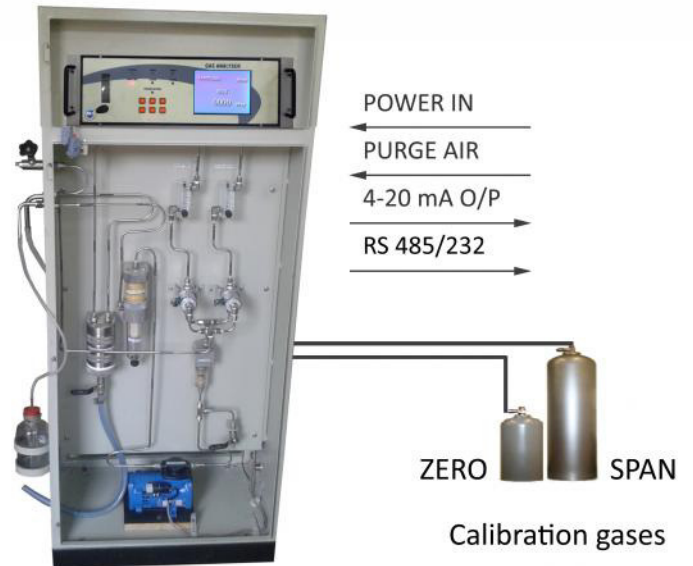
- Sample conditioning system offered as per the application
- Complete automatic operation
- 4" Graphical display which includes circuit tests & sampling flow rate
- Self diagnostic check facility
- Mere six keys to operate the complete instrument

APPLICATIONS

- Environment Industry
- Medical Engineering and Research
- Agriculture Biomass
- Automobile
- Clean room Monitoring
- Shipping Industry
- Stack or exhaust gas analysis
- Power & industrial plants
- Coke oven
- Fuel efficiency / optimization of combustion
- Process analysis



KL - 200



KL - 200 along with Sampling System

SPECIFICATION



Type	Rack / panel mount
Detectable gases / parameters	Toxic, Combustible, O ₂
Electronics / processor	Micro-controller
Power supply	230 V AC
Display	Graphic LCD
Alarm	Controlled alarms
Output	4 - 20 mA Standard, Individual relay
Digital Output	RS - 232, RS - 485, MODBUS, ETHERNET port
Technology	1. Sensor Specific (Electrochemical/TCD/PID) 2. Infra-red Technology (NDIR)
Resolution	1 mg/m ³ , 1 PPM, 1% V/V, application defined
Accuracy	± 2 % FS
Response time	Sensor dependent
Operating temperature	0 - 55 °C
Sampling / input	Direct plug-in through sampling system / 4 - 20 mA
Housing / case	19" rack mounting
Enclosure	Aluminium casing (power coated) for indoor application
Warm up time	Analysis / detector dependent
Physical dimensions	43.3 x 26 x 15.2 cm

MEASURING RANGES

**Gases and ranges are only indicative. Contact HNL for special gas / vapour & range*

PARAMETERS	RANGE	RESOLUTION	ACCURACY
FOR UV			
O ₃	0 - 50 PPM	1 PPM	± 2%
H ₂ S	0 - 500 PPM	0.1 PPM	± 2%
SO ₂	200 PPM, 2000 PPM	1 PPM	± 2%
NO	0 - 5000 PPM	1 PPM	± 2%
NO ₂	0 - 2000 PPM	1 PPM	± 2%
NH ₃	0 - 1000 PPM	1 PPM	± 2%
C ₆ H ₆	0 - 1000 PPM	1 PPM	± 2%
CL ₂	0 - 1000 PPM, 1 %V/V	1 PPM	± 2%
FOR INFRA - RED			
CO	0 - 100 %V/V	1 PPM	± 2%
CO ₂	0 - 100 %V/V	0.1 %	± 2%
CH ₄	0 - 100 %LEL	1 %V/V	± 2%
FOR ELECTROCHEMICAL			
O ₂	100 PPM	1 PPM	0.5 %
CO	0 - 2000 PPM	1 PPM	± 2%
NOX / NO	0 - 2000 / 0 - 5000 PPM	1 PPM (0.1)	± 2%
SO ₂ / SOX	200 PPM, 2000 PPM	1 PPM	± 2%
HF	0 - 50 PPM	0.1 PPM	± 2%
CL ₂	0 - 50 PPM	0.1 PPM	± 2%
H ₂ S	0 - 500 PPM	0.1 PPM	± 2%
O ₃	0 - 50 PPM	1 PPM	± 2%
HCHO	0 - 1000 PPM	1 PPM	± 2%
CH ₄	0 - 100 %LEL	1 %V/V	± 2%
CL ₂	0 - 1000 PPM	1 PPM	± 2%
FOR CHEMILUMINESCENCE			
NO	0 - 500 PPM	1 PPM	± 3%
NO _x	0 - 500 PPM	1 PPM	± 3%
NO ₂	0 - 500 PPM	1 PPM	± 3%
SO _x	0 - 500 PPM	1 PPM	± 3%