Handheld Gas Analyzer

TUV NORD (150)



Portable / Handheld Model : GA - 100

Protects Personnel, Plant & Assets



TECHNOLOGY

HNL's GA - 100 is a small, handheld and a convenient instrument to test & achieve optimum combustion efficiency in boilers & furnaces, a dire necessity in today's world of ever increasing Fuel costs and a great value for money with quick pay back period of few months.

SPECIAL FEATURES

- Portable, rugged, convenient and economical
- Self calibration & self diagnostic
- Displays oxygen content, temperature differential & combustion efficiency instantaneously
- Long life oxygen sensor specific for combustion process
- No adverse effect of acidic gases like CO, SO₂, NOx etc
- Sturdy chromel-alumel thermocouple suitable for upto 600 °C
- Easy to learn and easy to use: powerful micro controller provides acoustic & visual messages for easy use
- User selectable fuels oil, coal, gas
- Discrete LEDs to indicate FAULTS, FUELS, operation status, parameter on display
- Automatic self calibration: field calibration is automatic & begins with every start up with fresh air aspirated instead of gas sample
- Automatic self check for efficiency calculation: with aspirated fresh air specific percentage efficiency of the selected fuel is displayed as a check on its calculations

- Self supervisory diagnosis: continuously checks the status of: 1) Battery voltage
 - 2) Sample flow
 - 3) Oxygen sensor
- Sturdy stainless steel sampling probe with extension tubing for ease of measurement.
- Thermocouple in the tip of probe measures temperature at point of sampling to minimize error.
- Time tested high suction inbuilt sampling pump acts against draft. Supervisory circuit continuously monitors it against failure.
- · Inline filter to inbuilt moisture & dust,
- disposable & easy to replace filter element
- Supervisory diagnostic circuit continuously checks it against choking
- Retains the readings till the next sampling
- · Compact Aluminum Housing
- Rechargeable Ni-cad battery pack with charger
- Maintenance & Spare Parts: Designed for maintenance free operation. Long Life Sensor

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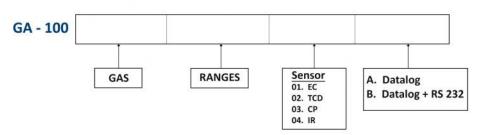
SPECIFICATIONS

Туре	Portable			
Detectable gases / parameters	Toxic and Oxygen			
Electronics / processor	Micro-controller			
Power supply	Rechargeable battery with charger			
Display	Graphical LCD display			
Alarm	Audio / visual			
Output	RS 232 / Datalogger			
Technology	TCD			
Resolution	1 mg/m3, 1 PPM, 1% V/V			
Accuracy	± 0.5 % FS			
Response time	less than 30 sec, sensor dependent, delay time to be added			
Operating temperature	0 - 55 °C			
Sampling / input	Auto suction			
Housing / case	ABS Plastic			
Included accessories	Battery charger, sampling probe up to			
	600°C, leather carry case			
Optional accessories	High temperature probe up to 600 °C, air filter			
Fuels	User Selectable Oil, Coal, Gas			
Self diagnosis	Combustion efficiency test with diagnostic indications			
Line filter	Replaceable Cartridge			
External dimensions	nal dimensions 222 X 105 X 40 mm			
Weight	500 gm			
Probe length	SS 600mm length standard (900mm, 1200mm, Optional)			

GASES & RANGES

02	: 0 - 25	%V/V	Resolution	: 0.1 %	
CO	: 0 - 2000	PPM	Resolution	: 1 PPM	
CO ₂	: 0 - 25	%V/V	Resolution	: Calculated	
Diff. Temp	: 25 - 650	°C	Resolution	: 0.1 °C	
Efficiency	: 0 - 99	%			
Lambda	: Calculated				

ORDERING INFORMATION



Note: Specifications and Features will vary with application. There may be changes overtime due to continuous development process.

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