

Handheld Gas Analyzer

Portable / Handheld Model : GA - 100



Protects **Personnel, Plant
& Assets**

HANDHELD GAS ANALYZER IMPROVES EFFICIENCY, REDUCES POLLUTION & SAVES FUEL



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, NO_x 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

Type	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/m ³ , 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	222 X 105 X 40 mm
Weight	500 gm
Probe length	SS 600mm length standard (900mm, 1200mm, Optional)

GASES & RANGES

O ₂	: 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.
@ 2018