



# COMPLETE ENVIRONMENTAL SOLUTIONS



**Air, Sound, Water, Soil Pollution Monitoring Instruments Manufacturing, Sales, Servicing & Calibration**  
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## PRODUCT LIST

### AIR POLLUTION MONITORING INSTRUMENTS

- RESPIRABLE DUST SAMPLER (PM10)
- FINE PARTICULATE SAMPLER (PM2.5)
- COMBO SAMPLER (PM10+PM2.5)
- STACK SAMPLER
- HANDY DUST SAMPLER
- PERSONAL SAMPLER
- BENZENE SAMPLER
- LOW VOLUME SAMPLER
- GASEOUS POLLUTANT SAMPLER
- THERMO ELECTRICALLY COOLED GASEOUS ATTACHMENT
- THERMO ELECTRICALLY COOLED GASEOUS ATTACHMENT
- SOUND LEVEL METER
- WEATHER MONITOR
- LUX METER • VIBRATION METER
- TOP LOADING CALIBRATOR
- FLOW CALIBRATOR

## SINGLE GAS DETECTOR MODEL: GD – 101 D/P

### Personal Gas Monitor

Portable / Handheld Model : GD - 101



**COMPACT, LIGHT WEIGHT, INTELLIGENT UNIT WITH APPLICATION SPECIFIC SENSORS SENSITIVE TO PPB / PPM Or PERCENTAGE LEVELS OF GASES & VAPOURS**

#### TECHNOLOGY

The advanced micro controller technology employed makes these ALERT METERS highly dependable, reliable and accurate. The complete automatic operation and calibration feature leaves no scope for user error. These compact, self contained and intrinsically safe instrument housed in a weather proof, high impact plastic case are powered with a replaceable 4 x 1.5 V DC batteries.

• TIME  
CALIBRATOR

• SOUND LEVEL  
CALIBRATOR

## **LAB INSTRUMENTS**

- BIO SAFTY CABINET
- FUME HOOD
- BOD INCUBATOR
- COD DIGESTOR
- AUTO CLAVE
  - BIOLOGICAL INCUBATOR
- HOT AIR OVEN • WATER BATH
- HUMIDITY CHAMBER
- HOT PLATE
- DISTTILATION UNIT
- HEATING MENTLE
- KJELDAL ASSEMBLY
  - DEEP FRIZZER
- PH METER
- TDS METER
- CONDUCTIVITY METER
- SPECTROPHOMETR
- WEIGHING BALANCE
- MOISTURE ANALYZER
- DIGITAL ULTRASONIC CLEANER
- DO METER
  - GRADENT THERMAL CYCLEAR PCR
- ICE FLAKER
- ICE MAKER
- PROBE SONICATOR
  - DIGITAL VISCOMETER
  - DIGITAL PRESSURE INDICATOR
- LON SELECTIVE ELECTRODES
- POLARIMETERS

On switching 'ON', the instrument goes thorough its complete self integrity check, and displays factory set 'Warn' and 'Alarm' values, before indicating 'Ready' for monitoring.

While in operation, the instrument monitors the work place continuously, giving the latest updated concentration of designated gas through diffusion sampling. Suction sampling is possible with an optional manual or battery operated pump and adaptor. The poison resistant Pellister or long life, integrally mounted electrochemical sensors with inbuilt cross interference filters are gas specific. Optionally the sensors can be mounted on an extension cable for monitoring inaccessible locations before entry.

## **SPECIAL FEATURES**

- Complete automatic operation.
- LCD display
- Continuous diffusion / suction sampling
- Confidence beep every 15 seconds.
- Complete self integrity check on start
- Automatic calibration.
- Display of WARN & ALARM
- Low battery alarm.
- Intrinsically safe.

# **PERSONAL GAS MONITOR**

**Portable/Handheld Model GD 101**

## **GASES DETECTED & RANGES**

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

H <sub>2</sub>	: 0 - 5 % / 100 %	Chlorine: 0 - 5 / 500	PPM	CO <sub>2</sub>	: 100%			
CO (B)	: 0 - 10%	CO	: 0 - 500 / 4000	PPM	SO <sub>2</sub>	: 0 - 20/2000	PPM	
H <sub>2</sub> S	: 0 - 50 / 500	PPM	NO <sub>2</sub>	: 20/200	PPM	NO <sub>x</sub>	: 0 - 1999	PPM
Oxygen	: 0 - 25% / 100%	NO	: 10 / 1000	PPM	Hydrocarbon:	0 - 100 %	LEL	
Humidity:	0 - 50 / 500	Temp	: 0 - 1000 °C	Combustion efficiency:	0 - 99.9%			
NH <sub>3</sub>	: 0 - 100	PPM	C <sub>2</sub> H <sub>4</sub>	: 0 - 100 / 500	PPM			

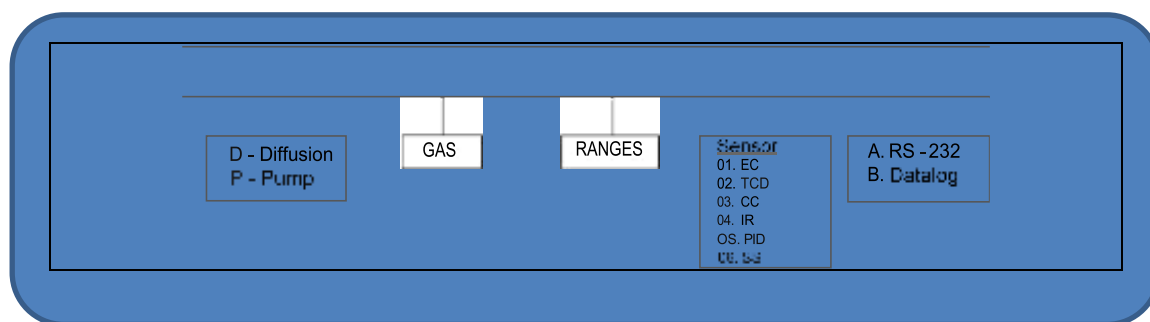
- VISCOMETERS
- PROBE SONICATOR-TOUCHSCREEN
- LON WITH PH METER-5 POINTS
- PH ELECTRODES
- MULTI PARAMETER / DO METER
- REFRACTO METERS
- GRADIENT THERMAL CYCLER
- ULTRASONIC CLEANERS
- CERAMIC HOTPLATE MAGNETIC STIRRER
- DIGITAL PIPETTES
- REFRIGERATED CIRCULATING BATH
  - DIGITAL WATER BATH
- ANALOG MULTIMETER
- DIGITAL MULTIMETER
- BENCH TYPE TRUE RMS DIGITAL MULTIMETER
- AC CLAMP METER
- AC/DC CLAMP METER
- POWER CLAMP METER
- AC LEAKAGE CURRENT TESTER
- EARTH LEAKAGE
- INSULATION RESISTANCE TESTER
- PHASE ROTATION METER
- VOLTAGE DETECTOR
- DIGITAL CAPACITANCE METER
- DIGITAL LCR METER
- DIGITAL MILLIOHM METER
- LUX METER

## SPECIFICATIONS

Type	Portable / handheld
Features	Compact, light weight, intelligent unit with application specific sensors sensitive to PPB, PPM or percentage levels of gases and vapours
Detectable gases / parameters	All
Electronics / processor	Micro-controller
Power supply	Rechargeable battery with charger
Display	Graphic LCD
Alarm	Audio visual
Output	RS 232, data logger
Sensor technology	All gaseous sensors
Range resolution	% V/V, LEL PPM, PPB
Accuracy	± 2% for other gases & ± 0.5 % for oxygen
Response time	Less than 15 sec
Operating temperature	0 - 55 °C
Sampling / input	Diffusion / auto suction
Housing / case	Polycarbonate plastic
Included accessories	Leather carry case
Optional accessories	Calibration adaptor, goose neck probe
Applications	Ambient air leakage, pre-entry into confined space
Industries	All Chemical, petrochemicals, pharmaceutical, process industry, labs

## OTHER SPECIFICATIONS

Sensor life	3 - 5 years
Measurement	Continuous
Size and weight	119 (H) x 80 (L) x 25 (B) mm 135 gm
Warranty	1 year



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