



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
- 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
- DISTILLATION UNIT

PORTABLE GAS ANALYZER 151

Portable Gas Analyzer

Portable / Carry on Model : GA - 151



THE MOST POWERFUL, COMPACT, RUGGED & INTELLIGENT INSTRUMENT FOR SINGLE/MULTI GAS ANALYSIS. ITS AUTOMATIC OPERATION, CONTINUOUS, MEASUREMENT & DISPLAY OF GAS CONCENTRATION MAKES IT A VALUABLE AID FOR ANALYSIS IN VARIOUS APPLICATIONS

TECHNOLOGY
On start up, the instrument automatically goes through complete integrity check, calibration cycle before displaying its readings for sampling. With the press of sampling switch, the analyzer automatically extracts the sample, analyses and display the concentrations of various gases in cyclic order. To stop or for further sampling at different locations or clearing with fresh air before switch off, one has to press the sample switch again.

SPECIAL FEATURES

- *Complete Automatic operation* : including calibration, "ON - OFF" & "SAMPLE" keys only
- Self diagnostic check & specific fault indication
- discrete LEDs for sample flow, sensor efficiency & battery condition
- Full continuous on-line self-integrity check
- Eliminates wrong measurements due to Instrument faults
- USER friendly : visual messages on status ON functioning.
- *Proven sensor technology* : special purpose long life sensors with cross interference filters to achieve high accuracy.
- Oxygen sensor guaranteed for 4 years.
- Continuous, stable & automation display of concentrations : ensures maximum accuracy & reliability.
- *Sensor technologies* : analyser is built up using sensors technology to suit specific application.
- Batteries : long life rechargeable batteries.
- *Diffusion or suction* : with time tested, sturdy, high suction in-built pump supervisory circuit continuously monitors the pump against failure.

- Low porosity disposable cartridge line filter & moisture separator
- Calibration : a built-in procedure allows easy and automatic span sensor calibration using standard gas cylinder, periodic zero calibration is automatic on demand
- Electronic flow meter : an automatic built-in system measures a flow of sampling gas to obtain a constant sampling volume.
- Multi fuel selection : The fuel efficiency analyzer can be programmed for selection upto 10 fuels for calculating combustion values.
- Gas probes & sampling system : flue gas sampling probes with different lengths, shapes and max operating temperatures up to 1600°C are available to match various requirements of different applications. A sintered pre-filter is suggested for severe and having dust loded applications.
- A heated sampling hose is available for high temperature applications and allows flue gas sampling without condensation.
- Continuous monitoring : The industrial design and the advanced technology applied to the unit, allows it to perform long term gas analysis

Portable Gas Analyzer

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- HEATING MENTLE
- KJELDAL ASSEMBLY
- DEEP FRIZZER
- PH METER
- TDS METER
- CONDUCTIVITY METER
- SPECTROPHOMETR
- WEIGHING BALANCE
- MOISTURE ANALYZER
- DIGITAL ULTRASONIC CLEANER
- DO METER
- GRADIENT THERMAL CYCLEAR PCR
- ICE FLAKER
- ICE MAKER
- PROBE SONICATOR
- DIGITAL VISCOMETER
- DIGITAL PRESSURE INDICATOR
- LON SELECTIVE ELECTRODES
- POLARIMETERS
- 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

GASES & RANGES

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

1. CO	: 0 - 4000 PPM	2. SO ₂	: 0 - 1999 PPM	3. NO	: 0 - 1999 PPM
4. O ₂	: 0 - 25%	5. Excess Air (A)	: 0-100 %5	6. CO(B)	: 0-10%
7. CO ₂	: 0-25% / 100% V	8. NOX	: 0-1999 PPM	9. NO ₂	: 0 - 100 PPM
10. CxHx	: 0-100% LEL (Catalytic) & 0-5% V (TCD/NDIR)	11.	CO (A) Sensor Comp. For H ₂	: 0 - 4000 PPM	

SPECIFICATIONS

Type	Portable / carry on
Features:	Rugged, convenient, economical, up to 6 sensors, temperature up to 600 °C, calculated parameters - CO ₂ , Excess air, Diff., Temp., Lambda, etc
Detectable gases / parameters	All gases, sensor specific
Electronics / processor	Micro-controller
Power supply	Rechargeable battery with charger
Display	Graphic LCD display
Output	RS 232
Sensor technology	Electrochemical, TCD, catalytic pellister, IR, IC capacitive
Range / resolution	mg/m ³ , PPM, % V/V, application defined
Accuracy	± 0.5 % FS
Response time	less than 30 sec, sensor ddependent
Operating temperature	0 - 55 °C
Sampling / input	Auto-suction
Housing / case	Aluminium
Included accessories	Battery charger, sampling probe up to 600 °C, air filter, datalogging, leather carry case
Optional accessories	High temperature probe up to 1500 °C
Applications	Fuel efficiency, stack gas analysis, process analysis, emission monitoring, energy audit, environment monitoring, process analysis, vehicular emission
Industries	All, chemical, petrochemical, steel, paper, textiles, furnace, boilers

OTHER SPECIFICATIONS

External dimensions	170 X 100 X 130 mm
Weight	1.5 Kg. App.
Probe (optional)	(i) 8mm, Dia SS 600 mm length with 2 meter Hose
	Probes of other material & length available.
	(ii) Sniffer Probe : To detect & locate the precise position of Gas leak in a pipe network.

Contact Us

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Purifying your tomorrow