

#### TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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# SERIES 90N AMBIENT AIR QUALITY MONITOR

# THE INSTRUMENT

The TECHNOVATION SERIES 90N AIR QUALITY PORTABLE ANALYSER measures the concentration of a single pollutant gases in parts per million. The Standard Sensor Mounting is internal in conjunction with an inbuilt pump to educt the sample gas over the sensor. The inbuilt pump facilitates drawing the sample at a height and a distance through a long enough suitable tube. Optionally the sensor can be externally mounted on a cable of specified length, at its end Or surface mounted on the instrument to measure the sample gas in diffusion mode in ambient air for long periods of time.

## **FEATURES**

- Accurate, Reliable, Low Cost & Rugged
- Internal Pump OR Sensor on cable option
- Rechargeable battery
- One Audible and visual alarm
- Low battery alarm

# **APPLICATIONS**

These analysers are useful in measuring the pollutant gases for compliance with air quality limits under "The Environmental Protection Act". Ambient air monitoring can be done continuously under certain conditions of use.

## STANDARD SPECIFICATIONS

Range & Gas : ANY ONE form table

below

Display : LCD, 31/2 digits.

Sensor Type : Electrochemical, with life

expectancy of 3 years.

Working Temp : 0-40°C for instrument.

Accuracy : <u>+</u>5% at constant

temperature & pressure.

Zeroing : With ZERO grade Air.

# Pollutant Gas Measurements Required By The "Environmental Protection Act" Made Easy



# **TECHNOVATION® SERIES 90N**

### STANDARD SPECIFICATIONS CONTINUED

Power Supply : Standard by internal 12V

1.3AH rechargeable

battery

Size : 195 x 98 x 155mm

Weight : 1.3kg.

Pump flow : 1 liter/minute
Pump suction : 8" Hg Column

Flow indicator : Provided in instruments

with Pump

Output : 0-1V

## **ACCESSORIES**

Carrying case, Mains cord, Flow thru cap, Instruction manual, Hand aspirator bulb, Silicone rubber tubing, Calibration screw driver. supplied as per option chosen.

# **OPTIONS**

■ Power: 220 VAC mains supply

 Sensor mounting at end of specified cable length or surface mounted on instrument

GAS	RANGE	RESOLUTION	1 ppm Conversion = μ g/m <sup>3</sup>	T(90)
CO	0 to 199.9	$0.1 \text{ ppm} = 100 \text{ ppb} = 114 \mu \text{ g/m}^3$	1 ppm CO = 1140 μ g/m <sup>3</sup>	40 secs
SO2	0 to 19.99	$0.01 \text{ ppm} = 10 \text{ ppb} = 26.3 \mu \text{ g/m}^3$	1 ppm SO = $2630 \mu \text{ g/m}^3$	60 secs
NO	0 to 19.99	$0.01 \text{ ppm} = 10 \text{ ppb} = 18.7 \mu \text{ g/m}^3$	1 ppm NO = 1870 μ g/m <sup>3</sup>	80 secs
О3	0 to 19.99	$0.01 \text{ PPM} = 10 \text{ ppb-= } 21.3 \text{ g/m}^3$	1 PPM On = 2130µg/m <sup>3</sup>	80 secs

Conversion of x ppm to $\mu$ g/m³ or mg/m³	Mol wt of CO = $28$ ,SO = $64.6$ , NO = $46$ ,O <sub>3</sub> = $48$	
$\mu g/m^3 = x ppm X mol. wt X 10^6/24470$	$mg/m^3 = x ppm X mol.wt X 10^3 / 24470$	