



TECHNOVATION Analytical Instruments Pvt.Ltd

OFFICE :204 Deccan Court, 259 S.V. Road, Bandra (W), Mumbai-400050

Tel : 91-22-2641 3288 • Fax : 91-22-2643 1585 • E-mail : taipl@vsnl.com

• Website: www.technovationindia.com www.indiamart.com/technovation

FACTORY: W-312 13 TH Cross road M.I.D.C Rabale, Navi Mumbai . 400701.

Certified ISO 9001: 2000 by



CERT. NO. 217910

SERIES 90 AMBIENT AIR QUALITY MONITOR

THE INSTRUMENT

The TECHNOVATION SERIES 90 AIR QUALITY PORTABLE ANALYSER measures the concentration of some pollutant gases in parts per million or parts per billion. Only one gas is measured by an instrument.

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

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

Display	: Digital LCD, 3 1/2 digits
Sensor Type	: Electrochemical, with life expectancy of 3 years.
Working Temp	: 0-45°C for instruments, 0 - 40°C for gas inlet.
Accuracy	: 5% at constant temperature
Zeroing	: With gas free air/synthetic air
Power Supply	: Standard by internal rechargeable battery

GAS	RANGE	RESOLUTION	1 ppm Conversion = μ g/m ³	T (90)
CO	0 to 199.9	0.1 ppm = 100 ppb = 114 μ g/m ³	1 ppm CO = 1140 μ g/m ³	40 secs
SO ₂	SO ₂ 0 to 19.99	0.01 ppm = 10 ppb = 26.3 μ g/m ³	1 ppm SO ₂ = 2630 μ g/m ³	60 secs
NO ₂	NO ₂ 0 to 19.99	0.01 ppm = 10 ppb = 18.7 μ g/m ³	1 ppm NO ₂ = 1870 μ g/m ³	80 secs
O ₃	O ₃ 0 to 19.99	0.01 PPM = 10 ppb = 21.3 μ g/m ³	1 PPM O ₃ = 2130 μ g/m ³	80 secs

Conversion of x ppm to μ g/m³ or mg/m³
 μ g/m³ = x ppm X mol. wt X 10⁶/24470

Mol wt of CO = 28 SO₂ = 64.6 NO₂ = 46 O₃ = 48
mg/m³ = x ppm X mol.wt X 10³ / 24470

Pollutant Gas Measurements Required By The Environmental Protection Act Made Easy



TECHNOVATION® SERIES 90

STANDARD SPECIFICATIONS CONTINUED

Range & Gas	: ANY ONE form table below
Accuracy	: \pm 5 % FSD
Size	: 195 x 98 x 155 mm
Weight	: 1.3kg.
Pump flow	: 1 liter/minute
Pump suction	: 8 " hG Column
Flow indicator	: Provided in insts. With Pump

ACCESSORIES

Carrying case, Battery charger, Flow thru cap, Hand aspirator bulb, supplied as per option chosen.

OPTIONS

Power	220 VAC mains supply.
Sensor mounting	Either inbuilt or at end of specified cable length or surface mounted on instrument.