



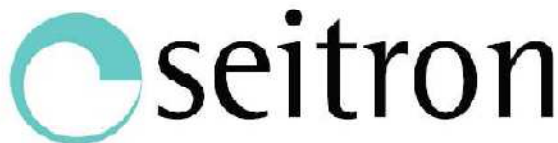
# ARV INSTRUMENTS PVT. LTD.

Address: B-7, WA-107/121, ROHINI COMPLEX, SHAKARPUR, DELHI-110092. INDIA.

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## CHEMIST-500



Handheld Versatile Gas Analyzer for Emissions Monitoring of Boiler, Engine, Furnace, and Other Combustion Applications

Built with Quality in Mind

### Industrial Combustion Gas & Emissions Analyzer

Accurate

Reliable

Robust

Fast

CO<sub>2</sub>

CO

● Up To FOUR Gas Sensors

● PC Software with Bluetooth

O<sub>2</sub>

● Automatic Data Saving

● Total NO<sub>x</sub> Capable

● Combustion Efficiency

● CO Sensor w/ NO<sub>x</sub> Filter

● Draft & Differential Pressure

● 2 Channel Thermometer

● Internal Memory (2000 Tests)

● Customizable Display Screen & Print-Out

● Pre-Calibrated, Field Replaceable Gas Sensors

● Dilution Pump For CO Auto-Range Measurements Up To 10%



NO

NO<sub>x</sub>

NO<sub>2</sub>

SO<sub>2</sub>

CxHy  
(HC)

Smart App For



Phones & Tablets

NEW Sample Conditioning Unit For Low NO<sub>x</sub> & Low SO<sub>2</sub> Applications

Bluetooth

Full COLOR Graphic Display

BUILT-IN Printer



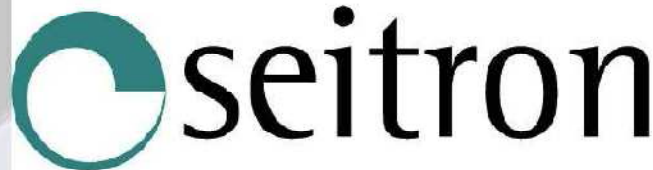
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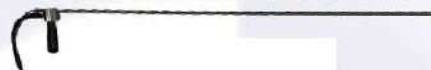
## CHEMIST-500 Features



### Sample Conditioning Unit For Low NO<sub>x</sub> & SO<sub>2</sub> Applications

Removes Moisture at the Probe For More  
Accurate Low NO<sub>x</sub> & SO<sub>2</sub> Measurements

### High Temperature Probe & Sintered Filter Available



Parameter	Sensor	Range	Resolution	Accuracy
O <sub>2</sub>	Electrochemical	0 - 25 %	0.1 %	±0.2 % vol
CO H <sub>2</sub> Compensated w/ Built In NO <sub>x</sub> Filter	Electrochemical	0 - 8000 ppm	1 ppm	±8 ppm (0 - 200ppm) ±5 % rdg (201 - 2000ppm) ±10 % rdg (2001 - 8000ppm)
CO DILUTED	Electrochemical	0.0% - 10.00%	0.01%	±10% rdg
CO <sub>2</sub>	Calculated	0 - 99.9%	0.1 %	
NO	Electrochemical	0 - 5000 ppm	1 ppm	±5 ppm (0 - 100 ppm) ±5% rdg (101 - 5000ppm)
NO <sub>2</sub>	Electrochemical	0 - 1000 ppm	1 ppm	±5 ppm (0 - 100 ppm) ±5% rdg (101 - 1000ppm)
Low NO and/or Low NO <sub>2</sub>	Electrochemical	0 - 100.0 ppm	0.1 ppm	±1.5 ppm (0.0 - 40.0ppm) ±5% rdg (40.1 - 100.0ppm)
NO <sub>x</sub>	Calculated	0 - 5000 ppm	1 ppm	
SO <sub>2</sub>	Electrochemical	0 - 5000 ppm	1 ppm	±5 ppm (0 - 100ppm) ±5% rdg (101 - 5000ppm)
Low SO <sub>2</sub>	Electrochemical	0 - 100.0 ppm	0.1 ppm	±1.5 ppm (0.0 - 40.0ppm) ±5% rdg (40.1 - 100.0ppm)
CO <sub>2</sub>	NDIR	0-20% or 0-50%	0.1%	±3% rdg
CxHy (HC)	Pellistor	0 - 5%	0.01%	±5% Full Scale
Tair	PE100	10 to 212 °F -10 to 100 °C	0.1 °F 0.1 °C	±1 °F ±1 °C
Tgas	Tc K	-4 to 2280 °F -20 to 1250 °C	0.1 °F 0.1 °C	±0.5 °C (-20 to 100 °C) ±0.5% rdg (101 to 1250 °C)
Pressure/Draft	Semiconductor	+0 - 80 inH <sub>2</sub> O	0.001 inH <sub>2</sub> O	±1.0% rdg
Excess Air	Calculated	0 - 850%	1 %	
Efficiency	Calculated	0 - 100%	0.1 %	

## Probes & Hoses

**Standard:** 12", 300mm Probe,  
1470°F/800°C max with  
10'/3m Dual Hose

**Long:** 30", 750mm Probe,  
1470°F/800°C max with  
10'/3m Dual Hose

**Long & High Temp:** 40", 1m Probe,  
2190°F/1200°C max, with  
10'/3m Hose

**Hose Extensions:** 10'/3m Length  
Available



## All 500 Kits Include:

- Built-In Printer
- Draft & Differential Pressure
- Temperature Measurements
- Calculation for CO<sub>2</sub> Efficiency & Excess Air
- Rechargeable Batteries & AC Charger
- Gas Sampling Probe & Hoses
- Water Trap with Filter Cartridge
- Magnetic Rubber Holster
- 2000 Text Internal Memory
- PC Software & USB Cable
- Bluetooth Module (Internal)
- Operating Manual
- Calibration Certificate
- ABS Hard Plastic Carrying Case