

CHEMIST 502/504

seitron

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

CO₂

CO

● Up To FOUR Gas Sensors

● PC Software with Bluetooth

O₂

● Automatic Data Saving

● Total NO_x Capable

● Combustion Efficiency

● CO Sensor w/ NO_x 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_x

NO₂

SO₂

C_xH_y
(HC)

Smart App For



Phones & Tablets

Bluetooth

Full COLOR Graphic Display

BUILT-IN Printer

MARKETED IN INDIA BY : ALPHA ENGINEERING AND SYSTEMS

TECHNICAL SPECIFICATIONS

MEASUREMENT	SENSOR	RANGE	RESOLUTION	ACCURACY
O ₂	Electrochemical sensor	0 – 21 % vol	0.1 % vol	±0.2% vol
CO with H ₂ compensation	Electrochemical sensor	0 – 8000 ppm	1 ppm	±5% measured value
Diluted	Electrochemical sensor	10 % vol	0.01 % vol	±10% measured value
CO Low range with H ₂ compensation	Electrochemical sensor	0 – 500 ppm	0.1 ppm	±5% measured value
Diluted	Electrochemical sensor	6250 ppm	10 ppm	±10% measured value
CO Mid range	Electrochemical sensor	0 – 20000 ppm	1 ppm	±5% measured value
Diluted	Electrochemical sensor	25 % vol	0.01 % vol	±10% measured value
CO Hi range	Electrochemical sensor	0 – 10 % vol	0.01 % vol	±5% measured value
NO	Electrochemical sensor	0 – 5000 ppm	1 ppm	±5% measured value
NO Low range	Electrochemical sensor	0 – 500 ppm	0.1 ppm	±5% measured value
NO _x	Calculated			
SO ₂	Electrochemical sensor	0 – 5000 ppm	1 ppm	±5% measured value
SO ₂ Low range	Electrochemical sensor	0 – 500 ppm	0.1 ppm	±5% measured value
NO ₂	Electrochemical sensor	0 – 1000 ppm	1 ppm	±5% measured value
NO ₂ Low range	Electrochemical sensor	0 – 500 ppm	0.1 ppm	±5% measured value
C _x H _y	Pellistor sensor	0 – 5 % vol	0.01 % vol	±0.25% vol
CO ₂	Calculated	0 – 99.9 % vol	0.1 % vol	
CO ₂	NDIR sensor	0 – 20 % vol	0.1 % vol	±5% measured value
CO ₂	NDIR sensor	0 – 50 % vol	0.1 % vol	±2% measured value
H ₂ S	Electrochemical sensor	0 – 500 ppm	0.1 ppm	±5% measured value
NH ₃	Electrochemical sensor	0 – 500 ppm	0.1 ppm	±10% measured value
Air temperature	TcK sensor	-20 – 120 °C	0.1 °C	±0.5 °C
Flue gas temperature	TcK sensor	-100 – 1250 °C	0.1 °C	±0.5% measured value
Pressure (draught & differential)	Piezoelectric sensor	± 200 mbar	0.01 mbar	±1% measured value
Velocity Measurement	Pitot tube	0 – 97 m/s		±2% measured value
Differential temperature	Calculated	0 – 1250 °C	0.1 °C	
Air index	Calculated	0.00 – 9.50	0.01	
Excess air	Calculated	0 – 850 %	1 %	
Stack loss	Calculated	0.0 – 100.0 %	0.1 %	
Efficiency	Calculated	0.0 – 100.0 %	0.1 %	
Efficiency (condensing)	Calculated	0.0 – 120.0 %	0.1 %	
Smoke index	External instrument	0 – 9		

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