

Portable Series MODEL 704 EMISSIONS ANALYZER



O_2 CO NO NO₂ SO₂

Model 704-A measures O₂, CO, and NO

Model 704-B measures O₂, CO, NO and NO₂

Model 704-C measures O₂, CO and NO and SO₂

Model 704-D measures O₂, CO, NO and CO (10%)

KEY FEATURES

- Simultaneous and continuous display of all measurements
- User friendly step-by-step instructions
- Data storage for 300 complete combustion emission tests
- RS-232 interface
- Printout in ppm, (or mg/m³) actual and ppm corrected to 3%, 7%, 15% or user selectable O₂ reference
- High vacuum sample pump
- Printout with day, date and time

MAXIMIZE FUEL SAVINGS AND MINIMIZE ENVIRONMENTAL CONCERNS WITH A PROFESSIONAL, PORTABLE GAS ANALYZER FOR FIRED COMBUSTION SYSTEMS

The COSA 704 has been developed to serve both environmentalists and energy managers, meeting the demand for a portable combustion efficiency analyzer that can measure the gases of environmental interest. With its capability to measure 4 gases (O₂, CO, NO and NO₂ or SO₂), the COSA 704 is a versatile and powerful instrument.

The user-friendly program guides the operator through easily understood menus. With only minimal training, technicians can quickly make accurate measurements of CO, O₂, CO₂, NO_x and either

SO₂, NO₂ or CO to 10% at the touch of a button. Electrochemical sensors allow reliable measurement without errors being introduced by background gases.

The unit gives step by step instructions to the user and provides digital self calibration diagnostics including automatic sensor calibration.

COSA 704 Series analyzers are supplied complete with all necessary accessories including users manual, battery recharge unit, spare printer roll, carrying strap and sample gas filter, and are guaranteed for 12 months against defective workmanship and materials.

PORTABLE SERIES MODEL 704 EMISSIONS ANALYZER

PROGRAMMED FUEL TYPES

Oil light #2, oil light #6, natural gas, coke oven gas, blast furnace gas, coal, propane, butane. Extensions possible.

SENSOR	RANGE	RESOLUTION	ACCURACY (whichever is greater)
Oxygen (O ₂)	0 to 21%	0.1% Vol	± 0.2% abs
Carbon Monoxide (CO)	0 to 10000 ppm	1 ppm	± 10 ppm or ± 5% reading
Nitrogen Oxide (NO)	0 to 4000 ppm	1 ppm	± 10 ppm or ± 5% reading
Carbon Monoxide (CO) (option)	up to 10%	100 ppm	± 200 ppm ± 5% reading
Sulfur Dioxide (SO ₂)	0-2000 ppm	1 ppm	± 10 ppm or ± 5% reading
Nitrogen Dioxide (NO ₂)	to 0-1000 ppm	1 ppm	± 10 ppm or ± 5% reading

CALCULATED VALUES

Carbon Monoxide (CO)	ppm, mg/m ³
Carbon Dioxide (CO ₂)	0 to 20%
Nitrogen Oxides (NO _x)	ppm, mg/m ³
Nitrogen Dioxides	ppm, mg/m ³
Efficiency	0 to 100%
Losses	0 - 100%
Excess air	0 - 99.9%
Combustion air temperature	0 - 200F
Flue gas temperature	0 - 1200F
Stack draft	± 8.00" water column

OPERATING TEMPERATURES

Analyzer (ambient)	32 - 104° (0-40°C)
Probe (continuous)	1200°F
Probe (short term)	1550° (3 min max)
Probe *	2000°F
Probe *	3100°F
Display	LCD high contrast readout
Calibration	Automatic zero calibration
Error check	Self diagnostic program

SENSOR TYPES

O ₂ , CO, NO _x	Electrochemical cell
Temperature	Thermocouple type K
Draft	Diaphragm sensor

GENERAL SPECIFICATIONS

Power supply	Cordless operation with built in rechargeable battery for continuous 8 hour use or line power 115 v 60HZ
Probe length	12 inches standard, 30 or 40 inches optional
Sample pump	10 inches Hg vacuum
Flexible hose	10 feet standard 20 or 30 ft optional
Printer	Thermal printer, 2" paper width
Internal memory	300 complete combustion tests IBM compatible w/RS-232 Interface
Heavy duty transport case	Optional
Accessories	Users manual, battery recharge unit, spare printer roll, carrying strap and sample gas filter

* Optional

DIMENSIONS (without case)

B x H x D	8" x 3 3/4" x 7 1/2"
Weight	4.5 lbs

DISPLAY



COSA INSTRUMENT CORPORATION

Texas Office: 7125 North Loop East, Houston, TX 77028

Tel: 713-947-9591, Fax: 713-947-7549

New York Office: 84F Horseblock Rd, Yaphank, NY 11980

Tel: 631-345-3434, Fax: 631-924-7337

Email: sales@cosaxentaur.com

www.cosaxentaur.com

Represented by: