

# EMISSIONS MONITORING SYSTEM

## HANDHELD MULTIGAS ANALYZER



**COSA 707** 

THE MOST POWERFUL HANDHELD
MULTIGAS ANALYZER FOR INDUSTRIAL
COMBUSTIONS, EMISSION AND
PROCESS MONITORING MEASUREMENTS
USING UP TO 5 ELECTROCHEMICAL SENSORS





















# NOW WITH 7 SENSORS New Sensors: CO2 0-20% (IR-Bench) H2S 0-500 ppm (EC Sensor)

**COSA 707** 

THE MULTI TALENTED HANDHELD FLUE GAS ANALYZER USING UP TO 5 ELECTROCHEMICAL SENSORS

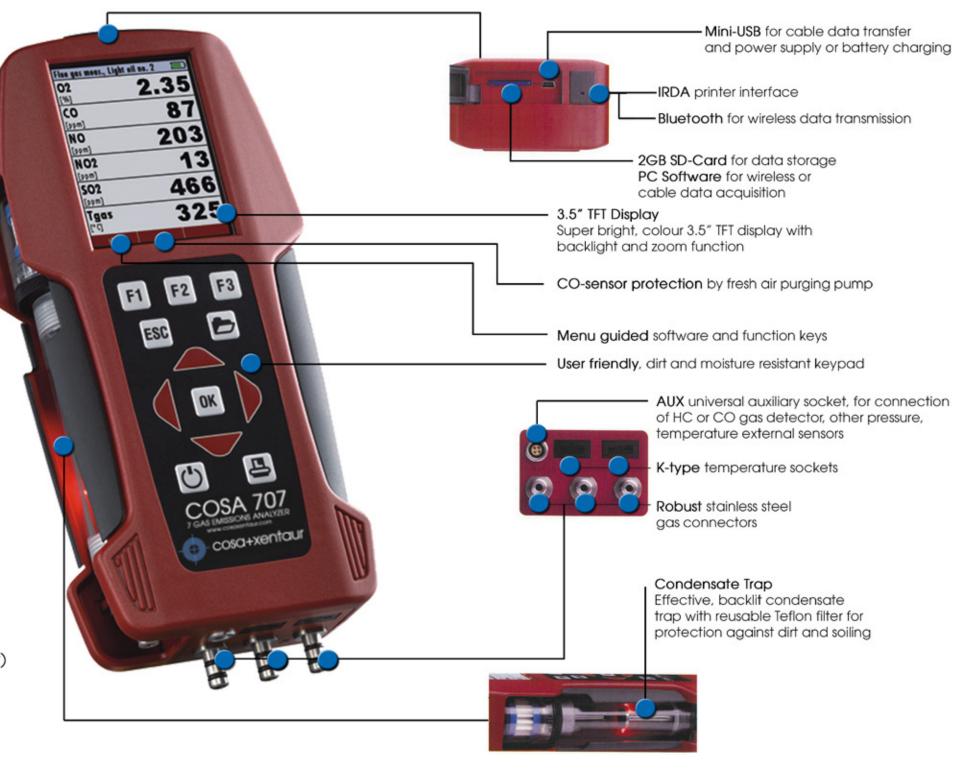
Suitable for emission monitoring of combustions & industrial processes

### MAIN FEATURES:

- Modern, slimline enclosure with fixing magnets
- Super bright, color 3.5" TFT-display with LED backlight
- Mini-USB for cable data transfer
- IRDA interface for high speed infrared printer
- Integrated condensate trap with PTFE filter and LED backlight
- Menu guided software and function keys
- Robust stainless steel gas connectors
- Rechargeable Lithium-Ion battery for min. 15 hrs, or NiMH for min. 6 hrs operation
- Less than 800 gr. weight (for instrument only)

Measurement of:	
O <sub>2</sub>	0 21,00 %
CO <sub>2</sub> IR bench	0 20,00 %
CO <sub>2</sub> calculated value	0 20,00 %
CO low	0 300 ppm
CO/H <sub>2</sub> compensated	010.000 ppm
NO low	0 300 ppm
NO	0 5.000 ppm
NO <sub>2</sub>	0 1.000 ppm
NOx	0 5.000 ppm
SO <sub>2</sub>	0 5.000 ppm
H2S	0 500 ppm
CO high	0 2,0 %
CO very high	0 10,00 %
Combustion air temperature	up to 100 °C
Stack gas temperature	up to 1.100 °C *
Stack draft measurement	± 100 hPa
Differential pressure	± 100 hPa
Differential temperature	up to 1.100 °C *

<sup>\*</sup> with adequate probes





ABS transport case including infrared high speed printer



Shoulder strap



Gas flow velocity measurement with m/s, absolute pressure sensor and different pitot tubes



Probes and hoses
MRU offers a wide range of standard
(up to 650 °C) and industrial probes
(up to 1.100 °C) with various lengths

natural gas, liquid gas, oil heavy, oil light, pell range	llets, wood, bio diesel, expandable fuel type list accuracy
range	accuracy
	079077 07 (TOTA)
0 21,0 Vol-%	± 0,2 Vol-% abs.
0 20 Vol-%	± 0,4 Vol-% abs.
0 4.000 ppm * overload up to 10.000 ppm	± 10 ppm or** 5 % reading up to 4,000 ppm or** 10 % reading up to 10,000 ppm
0 300 ppm (with 0,1 ppm resolution)	± 2,0 ppm or** 5 % reading
0 4.000 ppm * overload up to 20.000 ppm	± 100 ppm or** 5 % reading up to 4.000 ppm or** 5 % reading up to 20.000 ppm
0 4,00 % * overload up to 10,00 %	± 0,02% or** 5 % reading up to 4,00 % or** 10 % reading up to 10,00 %
0 1.000 ppm * overload up to 5.000 ppm	± 5 ppm or** 5 % reading up to 1.000 ppm or** 10 % reading up to 5.000 ppm
0 300 ppm (with 0,1 ppm resolution)	± 2,0 ppm or** 5 % reading
0 200 ppm * overload up to 1.000 ppm	± 5 ppm or** 5 % reading up to 200 ppm or** 10 % reading up to 1.000 ppm
0 2.000 ppm * overload up to 5.000 ppm	± 10 ppm or** 5 % reading up to 2.000 ppm or** 10 % reading up to 5.000 ppm
0 50 ppm * overload up to 500 ppm	± 5 ppm or** 5 % reading up to 100 ppm or** 10 % reading up to 500 ppm
0 650 °C (stainless steel tube) 0 1.100 °C (Inconel steel tube)	± 2 °C < 200 °C or**1 % reading up to 200 °C ± 2 °C < 200 °C or**1 % reading up to 200 °C
up to 650 °C or up to 1.100 °C (with suitable temperature sa	ampling tube)
0 100 ℃	±1°C
- 100 + 100 hPa	± 0,02 hPa
	± 0,3 Vol-% abs.
0 99,9 %	
based on the large fuel type list like: CO z, excess air, heat losses, combustion efficiency, flue gas dew point, CO / CO z ratio	
$mg/Nm^3$ , $NOx$ as $mg/m^3 NOz$ true measurement of $NOx = NO + NOz$ , including $Oz$ referencing (normalisation) to user settable value	
using 2nd pump, for sensor protection	
+ 5 + 45 °C, max. 95 % RH, none conden	sing
0 + 50 °C	
not in aggressive, corrosive or high dust ambience, not for use in hazardous areas	
High energy Lithium-Ion battery 15 h operation or NiMH battery, min. 6 h operation	
wall-plug grid power supply, 100 - 240 Vac /	/ 50 60 Hz
IP 20	
IP 20 approx. 750 g (with 2 sensors)	* for SHORT-TERM measurements of
	O 4.000 ppm * overload up to 10.000 ppm O 300 ppm (with 0,1 ppm resolution)  O 4.000 ppm * overload up to 20.000 ppm O 4,00 % * overload up to 10,00 % O 1.000 ppm * overload up to 5.000 ppm O 300 ppm (with 0,1 ppm resolution) O 200 ppm * overload up to 1.000 ppm O 2.000 ppm O 50 ppm * overload up to 5.000 ppm O 50 ppm O 650 °C (stainless steel tube) O 1.100 °C (Inconel steel tube) Up to 650 °C or Up to 1.100 °C (with suitable temperature second to 1.100 °C O 100 °C O



## **COSA Xentaur**

84G Horseblock Road, Yaphank, NY 11980 7125 North Loop East, Houston, TX 77028 55 Oak Street, Norwood, NJ 07648

Tel: +1.631.345.3434 E-Mail: Sales@cosaxentaur.com

Web: www.cosaxentaur.com