



UniGas 1000



Basic Combustion Analyser

Low cost tool for boiler maintenance

GAS ANALYSIS

- Easy to use with multiline display
- Automatic LCD backlight
- CO with 1 ppm resolution
- 180mm or 300mm removable flue gas probe
- Draft & differential pressure meter
- Ambient CO monitoring
- Built-in impact printer
- Rechargeable battery
- Real time Clock
- IR output to use your thermal printer



Designed to meet BS7927

Easy replaceable gas sensors

UniGas 1000 uses long life low maintenance sensors for O₂ and CO. Alarm levels with audible buzzer on gases measurement.

Standard Report of Calibration

Each instrument is factory calibrated and certified against Eurotron Standard to ensure traceability, and shipped with a Report of Calibration.

Rechargeable battery operations

Ni-MH rechargeable batteries provide longer field use. Flue gas analyser and internal printer is powered by unique batteries. Charger is supplied

as standard.

Built-in impact printer

The instrument is available with or without a built-in rugged impact printer. It uses a low cost common roll of paper. Certainly more readable, long time and heat resistant than the thermal printout on chemical paper.

Pressure/Draft input

Differential pressure input to verify: draft, gas pipework leak with pressure decay programme, gas flow pressure, pressure in combustion chamber, P on filters and fan,

pressure switches calibration.

Smoke index

Smoke index measurement is performed by using the optional external hand pump. The results can be stored in the internal memory and printed on the report.

Ambient monitoring

A procedure can be selected to monitor the CO and the O₂ in ambient air using the internal sensors. An internal program allow the CO max measurement in atmospheric boiler check.

Bulletin 06-05.1 E



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Specifications

Ordering Code

- **Calibration:** automatic calibration procedure at instrument switch-On.
- **Self-diagnosis:** Sensors efficiency test with display diagnostic messages.
- **Fuel types:** Up to 10 selectable from keyboard.
- **Power supply:** High capacity Ni-MH rechargeable battery pack / external battery charger.
- **Charging time:** 8h at 90% with instrument Off.
- **Battery life:** 6 hours (typical) continuous use (without printing and backlight).
- **Printer power supply:** from the analyser battery pack.
- **Printed report header:** 4 programmable lines.
- **Display:** 40x58 mm alpha-numeric LCD with backlight device.
- **Infrared port:** compatible with HP82240B cordless printer.
- **Operating temperature:** from -5°C to +45°C
- **Storage temperature:** from -20 to +60°C (3 months maximum at temperatures exceeding the operational limits).
- **Dimensions and Weight:** 115x90x330 mm - 1.1 kg with battery and printer



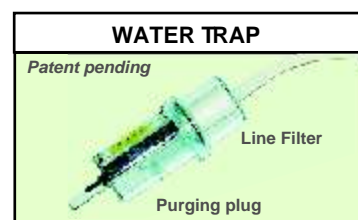
cat. 7820 - **A** - **B** - **C** - **D** - **E** - **F**

The standard package includes:
Unigas 1000 basic unit, battery charger, differential pressure sensor, infrared port for HP thermal printer, rubber holster, instruction manual, Eurotron calibration certificate.

Table A	Sensor n.1
1	O ₂ (0-25%)
Table B	Sensor n.2
0	none
2	CO (0-4000 ppm)
Table C	Sample probe (including water trap and line filter)
0	none
1	180mm flue gas probe or draft (single hose) BB610047
2	300mm flue gas probe or draft (single hose) BB610048
Table D	Options
0	none
P	Built-in impact printer
Table E	Mains adapter / charger
1	115V ±10% 50/60Hz - USA plug
2	230V ±10% 50/60Hz - Schuko plug
3	230V ±10% 50/60Hz - UK plug
4	230V ±10% 50/60Hz - European plug
5	100V ±10% 50/60Hz - USA/Japan plug
Table F	Calibration Certificate
1	Eurotron report

Parameter	Sensor	Range	Resolution	Accuracy
O ₂	Electrochemical	0 - 25%	0.1%	±0.2% vol
CO	Electrochemical	0 - 2000 ppm 4000ppm max 15min.	1 ppm	±10 ppm <100 ppm ±5% rdg elsewhere
CO ₂	Calculated	0 - 99.9%	0.1%	
Tair	Pt100	-10 - 100°C	0.1°C	±0.5°C
Tgas	Tc K	0 - 600°C	0.1°C	±1°C
Pressure/Draft	Piezoresistive	±99.99hPa	0.01 hPa	±1% rdg.
Excess air	Calculated	1.00 - infinity	0.01	
Efficiency	Calculated	1 - 99.9%	0.1%	

All emission measurements can be displayed with reference to a programmable O₂ value.
Accuracy limits are stated as % of reading. An additional ±1 digit error has to be considered.
The stated pressure relative accuracy is valid only after the zero procedure.
Measuring reading can be directly converted from ppm to mg/Nm³ and from hPa to mmH₂O, mbar, inH₂O.



Proprietary design trap
Patent pending to inhibit water into the instrument. External, to prevent risk of instrument damage. Big water tank capacity for condensation boiler. Small rubber cup for easy water purge. Long life paper filter.

Specifications may change without notice.



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