

RASI 300 Series Flue Gas Analysers



Flue Gas Analysers for Domestic and Commercial Oil, Gas and Biomass appliances

Build on the legacy on the RASI 200 series, the new RASI 300 range of multifunctional gas analysers feature touch screen display, plug and play sensors technology and many more improved features that make them the clear choice for heating professionals.

RASI 300 for use on domestic appliances

The RASI 300 is the clear choice if you are working on domestic boilers installations.

RASI 300C for use on commercial appliances

The RASI 300C offers all the capabilities of the RASI300 plus:

- CO (H₂) compensated 0 to 10.000 ppm range.
- High Accuracy pressure sensor with 0.001 mbar resolution.
- Integrated Bluetooth® module for real time data transfer.
- Optional NO/NO_x measurement cell.

Suitable for all types of burners (OIL& GAS), the new RASI 300 come now with specific functions to help heating engineers commissioning and adjusting biomass boilers. The easy to use touch screen display and the intuitive task menu, make the RASI300 range the easiest to use flue gas analysers in the market today.

Plug & Play user replaceable cells

Replace faulty sensors on-site and minimise the analyser downtime thanks to our new plug and play pre-calibrated sensors.

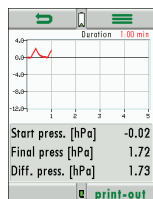


Touch Screen Display

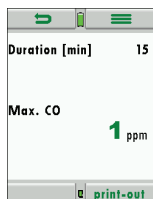
The new colour, high resolution touch screen display allow for quick setting of the analyser and for one hand operation



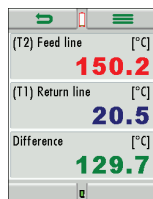
Display Screens/Applications



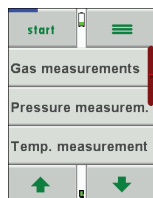
Timed let-by/tightness



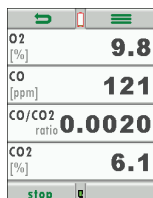
Ambient CO (BS 7967)



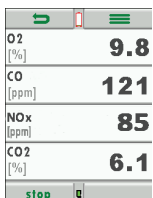
T flow/Return



Smart Menu



Flue Gas Measurements



NO_x measurement

Features

	300	300C
Domestic Oil, Gas appliances	●	●
Commercial Oil, Gas & Biomass Boilers		●
Touch Screen colour graphic display	●	●
Intuitive Task oriented menu	●	●
Plug & Play pre-calibrated user replaceable sensors	●	●
Flue Gas probe with the integrated large water trap, temperature measurements and draught	●	●
O ₂ , CO, CO ₂ , CO/CO ₂ ratio, Ex Air, efficiency Net, Gross and condensing, temperature and pressure measurements	●	●
CO Range 0-4000 ppm	●	
CO Range 0-10.000 ppm (H ₂ compensated)		●
18 programmed fuels plus 2 user define (see specification)	●	●
IRDA for optional printer	●	●
NO/NO _x measurement sensor	Option	Option
Draught 0.01 mbar resolution	●	●
Fine Draught 0.001 mbar resolution for natural draft boilers		●
Timed let-by/tightness test (IGE/up/ib) with separate print-out	●	●
Differential pressure menu with separate print-out	●	●
Timed CO build up tests (BS 7967) with separate print-out	●	●
T Flow/T Return menu with separate print-outs	●	●
30 seconds zero function and smart purging function	●	●
Li-Ion internal rechargeable batteries with USB charger	●	●
Micro SD card for data export and software upgrade	●	●
Large Internal memory (1000 test data)	●	●
Recall and view previous logs direct on screen	●	●
Personalised print out with engineer/company details	●	●
USB communication, USB cable and software	●	●
Bluetooth® communication for real time data transfer works with PC and android based smart phone and tablets	Option	●
5 years extended warranty when serviced annually at EiUK Ltd	●	●

RASI 300 Series Flue Gas Analysers



Rasi 300 CPA1 Kit



Rasi 300 OIL Kit



Rasi 300C Professional Kit

Smart phone/tablet APP

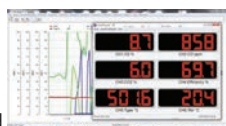
View data and control the RASI300 from a remote location with our new "Smart Data" application.

- Connect
- Start/Stop the RASI 300
- View live data
- Save and email data



Online View

Real Time data transfer to a PC or laptop via Bluetooth or USB. Read, save and manage your data in a more professional way



RASI 300 KITS Selection

	Standard Kit	Printer Kit	Advance KIT	CPA1 KIT	OIL KIT
Rasi 300 analyser with O2 and CO (0-4000 ppm) sensors	●	●	●	●	●
250X8 mm flue gas probe with water trap and filter	●	●	●	●	●
Integrated Magnet	●	●	●	●	●
USB lead and Online View Software	●	●	●	●	●
USB charger for analyser and printer	●	●	●	●	●
Full calibration certificate	●	●	●	●	●
IRDA Fast infrared printer with spare roll		●	●	●	●
Custom made vinyl case with separate space for instruments and accessories		●	●	●	●
2 x Pipe Clamp on probes (26 mm)			●	●	
Differential pressure hose kit suitable for use on NAT Gas and LPG			●	●	
Gas Pressure controller			●	●	
BS 7967 Appliance probe set (3 pcs)				●	
Gas Leak detector(sniffer)				●	
Smoke pump with filters/chart					●
Oil commissioning Kit (see page 9)					●
Price GBP (Ex VAT)	£ 460	£ 599	£632	£ 748	£ 715
Options					
Robust ABS case instead vinyl case	£ 66	£66	£66	£66	£ 66
BlueTooth® and free mobile APP	£ 75	£ 75	£ 75	£ 75	£ 75

RASI 300C KITS Selection

	Standard KIT	Printer KIT	BIOMASS KIT
Rasi 300C analyser with High CO 0-10.000 ppm sensor, bluetooth and fine draught sensor	●	●	●
250X8 mm flue gas probe with water trap and filter	●	●	●
Integrated Magnet	●	●	●
USB cable and Online View Software	●	●	●
USB charger for analyser and printer	●	●	●
Full calibration certificate	●	●	●
IRDA Fast infrared printer with spare roll		●	●
Special Particulate filter			●
Custom made vinyl case with separate space for instruments and accessories		●	●
Price GBP (Ex VAT)	£ 676	£ 878	£ 891
Options			
NO/NOx cell 0-5000 ppm	£ 215	£ 215	£ 215
Robust ABS case instead vinyl case	£ 66	£ 66	£ 66

Accessories

Modular Sampling Probe with longer shafts. See Pages 9-10



RASI 300 Series Flue Gas Analysers

Specifications

	Range	Accuracy	Resolution
O ₂	0-25 %	± 0.2% Vol abs	0.1% Vol
CO(H₂ compensated) RASI 300C Only	0-10000 ppm	± 10 ppm or ± 5% rdg up to 4,000 ppm ± 10 % rdg from 4,000 to 10,000 ppm	1 ppm
CO RASI 300 Only	0-4000 ppm	± 10 ppm or ± 5% rdg up to 4,000 ppm	1 ppm
NO(NO_x) (Optional) RASI 300C Only	0-5000 ppm	± 5 ppm or ± 5% rdg up to 1,000 ppm ± 10 % rdg from 1,000 to 5,000 ppm	1 ppm
Gas Temperature	-50-1200 °C	± 2 °C	0.1 °C
Air Temperature	-50 °C to 100 °C	± 1 °C	0.1 °C
Differential Pressure	-300 to 300 mbar	± 0.02 mbar	0.01 mbar
Draught	± 50 mbar	± 0.02 mbar	0.01 mbar
Fine Draught (RASI 300C Only)	± 50 mbar	± 0.02 mbar	0.001 mbar
Calculations			
Efficiencies (Net, Gross, Condensing)	0 to 120 %	n/a	0.1 %
Air Ratio	1 to 9.99	n/a	0.01
CO/CO ₂ Ratio	0-9999	n/a	0.0001
Excess Air	0 to 99.9%	n/a	0.1%
Heat losses	0 to 99.9 %	n/a	0.1%
CO ₂ %	0 to CO ₂ % max	± 0.3% vol	0.1%
Fuel Selection	Nat Gas, Oil Heavy, Oil Light, Propane, Butane, Wood 0%, Wood@10%, Wood@20%, Wood@30%, Wood@40%, Wood@50%, Pellets, Kerosene, Coal, Diesel, Petrol, Coke, Anthracite, plus 2 user define		
Memory, data capture and communication			
Storage medium	1000 sites/measurement on internal memory, or micro SD card		
Digital communications	Micro USB, Bluetooth®, Micro SD card, IRDA		
General			
Gas Sample probe	250 mm stainless steel probe with integrated temperature and pressure measurement, large water trap with filter.		
Display	4 lines touchscreen graphic colour display		
Weight, Dimension (W x L x H)	390g, 82x169x44 mm		
IP protection	IP40		
Power/Mains	Rechargeable LI-Ion 2250 mA/h, USB charging AC 100-240 VAC, 47-63 Hz. Cable and wall charger included		
Operating/Storage Temperature	5 to 45 °C / -20 to 50 °C		
Standard Warranty	2 years manufacturing warranty on instruments and cell		
5 years Warranty	5 years extended warranty when annual serviced by EIUK ltd- Include sensors replacement		
Approval (Rasi 300)	conform to BS7967 and BS EN 50379-3		
Approval (Rasi 300 C)	conform to BS7967, Independently tested by TUV SUD to BS EN 50379- 1&2		