

Flue Gas Analyser NS 300

- The NS300 is a new type of flue gas analyser.
- Specifically designed for gas boilers, it is easy to use and rapidly operational.
- The sampling rod is integrated in the analyser.
- Vocal interface for installation, maintenance, measurement and adjustment procedures.
- There is an infrared link with printer and PC.



CHARACTERISTICS

- Ambient CO 0 - 2 000 ppm
- CO max. (peak values)
- CO fumes 0-2000 ppm
- Unit used:1 ppm
- Detection of gas leak: sound signal
- Temperature of fumes: 0 - 1000°C, Resolution : 0.1°C
- Draught: +/- 50pa.
- VMC draught: +/- 200Pa
- Pressure: + 70 mBar
- Pressure and draught differential
- Storage temperature: -20°C to +50° C
- Operational temperature: +5°C to +45°C
- Batteries: NiMh (rechargeable)
- Charged on mains or cigarette-lighter.
- IrDA (infrared) link
- Loudspeaker or earphones (for noisy environments)

THE NS 300 PACK CONTAINS :

- 1 case containing the all equipment of the technician
- 1 NS 300 and its user manual
- 1 printer with IRDA link (infrared)

TECHNICAL DATA

| Operating modes | | |
|---|---|--|
| User Interface | Vocal | Loud speaker or ear phone |
| | Keyboard | Choice of measurements and procedures, keyboard information |
| Procédures | Installation | Entirely guided procedure |
| | After sales | Guided procedure in simplified mode complete mode |
| | Separate measurements | Combustion, pressure, draught, CMV, gas leak, domestic hot water, temperature of gas flow, opacity |
| CO measurements (compensated in hydrogen) | | |
| Ambient CO | 0 to 2000 ppm. 1ppm unit. Accuracy +/- 5% or 10 ppm | |
| CO fumes | 1 to 2000 ppm. 1 ppm unit. Accuracy: +/-5% or +/- 10 ppm | |
| Maximum CO value | Peak values | |
| Combustible gas | | |
| Integrated solid sensor | Ambient measurement. | Search for leaks |
| | 0 to 10000 ppm =CH ₄ , minimum threshold of 20 ppm, 10 ppm graduations | |
| Pressure / draught | | |
| Pressure | 0...70mBar. Unit: 1Mbar. Accuracy +/-2% | |
| CMV draught | 0...+/-200 PA (for differential measurements). Unit: 1PA. Accuracy +/-2% | |
| Natural draught | 0...+/-50 PA . Unit: 0.5 PA.Audio guidance to find main vein (t°) | |
| Temperature | | |
| Ambient temperature | After a few seconds. Unit: 1°C. Accuracy +/-2% | |
| Temperature of fumes | Up to 1000°C. Accuracy +/- 2% | |
| Domestic hot water temperature | Up to 1000°C. Accuracy +/- 2% | |
| Power supply | | |
| Batteries | Nimh x 8 | Rapid recharge; 1hour30 |
| Autonomy | At least 15 control procedures or 30 hours | |
| Chargers | Charger kit included in case. 220V/DC charger and charger adapted to cigarette lighters | |
| | | |
| Operational temperature | From -10°C to + 50°C | |
| Storage temperature | From -20°C to + 50°C | |
| Transmission of data | Infra red link between analyser and PDA or PC (IrDA). | Standard software compatible with PALM OS, Pocket PC, and Windows PC. |
| | Optional: transfer of data to owner's software. | Integrated computerised data (life span...) |
| Printer | Ultra compact IrDA printer | Rechargeable inside the case. |
| | Prints technician's code number and time stamps each measurement. | Thermal paper or self-adhesive thermal paper, 5 NiMH batteries |
| Sampling | Standard | Option |
| | Flexible 350mm rod | Rigid 350mm or 750mm rod |
| Version | NS300 (for gas eaters with natural draught) | CO +combustible gases, immediate temperature of hot water output, choice of type of gas |
| Accessories | Includes: printer, filters ,earphones, case for transport and storage (allowing recharging of analyser and printer) | |

ADVANTAGES

- ◆ **Rapidly operational:** There are no cables, no adjustments to be made to the sensors. The analyser is automatically set at zero when switched on for the length of the day or for a given time.
- ◆ **Multi-functional:** It controls CO and gas levels, gas leaks, combustion, temperatures, pressure, natural draught, VMC draught, opacity.
- ◆ **Rapid charging of batteries in 1h30** in a car or office without having to take the analyser, the printer and Blue tooth ear 'phone out of the transport and storage case.
- ◆ **As the data is transmitted vocally, the operator is totally free to make the necessary adjustments to the heater immediately.**
- ◆ **Automatic test:**
Maintenance messages (prevention and faults) indicating length of time used or 'wear and tear' of each spare part and of the sensor.
- ◆ **Automatic sequence of installation and SAV procedures.**
- ◆ **Separate measures available at all times**
- ◆ **Flexible rod allowing easy access.**
- ◆ **Lightweight: < 1.5kg with batteries.**
- ◆ **Integrated condensate container and filter with direct access.**
- ◆ **Data memorised for more than three months.**
- ◆ **Infrared transfer of data onto PC or PDA.** It is possible to integrate data in client database software.
- ◆ **Name of technician, time-stamp, product number of the analyser on each ticket (logo, address of maintenance services, identification number of client and product number of heater also possible).**
- ◆ **Ticket is printed on thermal paper or self-adhesive thermal paper. Universal printer compatible with PC and PDA.**
- ◆ **Integrated opacity measurements**
- ◆ **Maintenance contract**
 - Provided by the manufacturer in France, all inclusive package including: sensors, pump...(all spare parts which suffer from normal wear and tear).
 - Free hot line, on-line back-up with FAQ (Internet site), downloading of software.
 - Computerised follow-up of each analyser: configuration, evolution, activity...

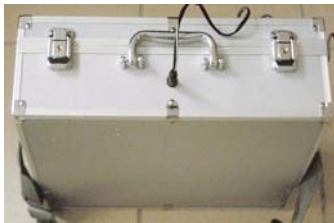
The NS300 pack

The NS 300 includes the following elements :

- NS 300 combustion analyser with filter, batteries and flexible sampling rod which can be easily dismantled.
- Case for convenient transport and NS 300 recharging support, connection for the printer and strap
- Instruction manual
- 5 extra filters
- IrDA printer with 5 NiMH batteries
- Extra roll of thermal paper
- Mains charger
- Charger adapted to cigarette lighters (for cars)
- Adaptor for measurement of pressure
- Key for the filter
- 60 cm tube for differential pressure measurements
- Earphones



Rapid all-in -one recharging process



To recharge the analyser and its accessories (printer, ear-phone), only one operation needs to be carried out either at the office or in the car thanks to the connection provided on the case. It takes less than two hours to recharge. Autonomy is of over 30 hours.

Flexible configuration allowing compatibility with other sensors (O₂, NO, NO₂, SO₂ etc...).

Downloads new programs with IrDA link (flash memory).

Records data: up to 150 operations. Finds data on PC or PDA thanks to IrDA link.



The NS300 is equipped with a suction pump, a system enabling it to eliminate condensates and a filter enabling it to carry out measurements in chimney flues.

With this analyser you will be able to carry out safety checks and complete procedures for your atmospheric gas heater (The analyser's vocal instructions will enable you to carry out installation or after sales services procedures).

The software provided for PDA or PC enables you to memorise measurement data in your client database.

The flexible rod will allow access to even the most awkward chimney flues.

The analyser comes with a printer, ear-phones, mains and car battery charger and five extra filters.