



SAMPLING
SOLUTIONS

MEGA SYSTEM

CALIBRATION
& METROLOGY

THYRIS

NEW



- Portable gas analyser
- PARAMAGNETIC O₂ Sensor (UNI EN 14789)
- CO NDIR Sensor (UNI EN 15058)
- NO_x CHEMILUMINESCENCE Sensor (UNI EN 14792)
- Efficient PELTIER system
- Large display touch screen



CARE FOR THE
ENVIRONMENT



THYRIS

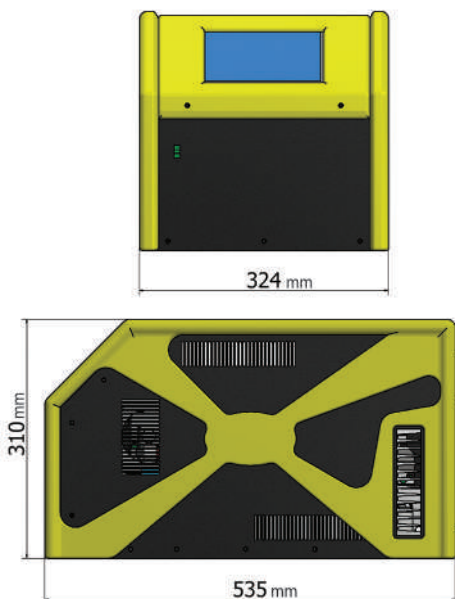
Thyris is a portable analyzer for detecting and measuring gas and fume emissions in various types of industrial plants.

Thyris is able to identify many elements:

oxygen (O₂) concentration volume in compliance with UNI EN 14789 (paramagnetic technique), carbon dioxide (CO₂) through NDIR sensors, carbon monoxide (CO) in compliance with UNI EN 15058 through a dedicated NDIR sensor and nitrogen oxides (NOx) in compliance with UNI EN 14792 (chemiluminescence technique).

The use of a heated line probe, and a specially designed filtering and cooling system, guarantees "dry" gas input to the sensor circuit, making it possible to carry out demanding and prolonged measurements even in the presence of high condensation.

THYRIS



TECHNICAL SPECIFICATIONS

Sensors

| | Range | Resolution | Linearity |
|-------------------------------|--------------|------------|-----------|
| O ₂ (paramagnetic) | 0 ÷ 25% vol | 0,01% vol | 1% F.S. |
| CO ₂ (NDIR) | 0 ÷ 25% vol | 0,01% vol | 1% F.S. |
| CO (NDIR) | 0 ÷ 200 ppm | 1 ppm | 2% F.S. |
| NOx (chemiluminescence) | 0 ÷ 1000 ppm | 1 ppm | 1,5% F.S. |

Interface, Data storage

| | |
|-----------|----------------------------|
| Display | LCD 7" Touch Screen |
| Interface | RS232 - USB (on Pen Drive) |

Environmental conditions

| | |
|-------------|------------------------|
| Temperature | 0 °C ÷ +45 °C - 95% UR |
|-------------|------------------------|

Energy

| | |
|-------|------------------------------------|
| Power | Mains grid [input 230 Vac – 50 Hz] |
|-------|------------------------------------|

Weight

| |
|-------|
| 20 kg |
|-------|

Equipped with

| |
|---|
| Technical manual |
| Test report |
| A sturdy comfortable carrying case is available for transport |

Options - Sensors

| Sensortype | Range | Resolution | Accuracy |
|---|--------------|------------|-----------|
| Electrochemical Sensors for SO ₂ | 0 ÷ 2000 ppm | 1 ppm | ± 5 % |
| CO (NDIR) | 0 ÷ 2000 ppm | 1 ppm | 1,5% F.S. |
| CO (NDIR) | 0 ÷ 500 ppm | 1 ppm | 2% F.S. |

MAIN FEATURES

- Instrument use and programming are carried out via the large touch screen in an easy and intuitive way.
- The analyzer is equipped with a filtration system and an integrated PELTIER cell cooling system with automatic condensate discharge.
- The software allows for continuous or timed analyzes and records average values. The minimum acquisition time is 15 seconds.
- The data collected and processed can be stored for later consultation or transferred to a Pen Drive USB or RS232. Through the Calibration menu and with the help of certified gas mixtures, the operator can easily verify or adjust the analyzer as required by regulations.
- The instrument is powered by mains grid (230 Vac / 50 Hz).
- With the THYRIS analyzer it is possible to use the FIREFLY sampling probe with heated filter, thermostated up to 180° C. A 3 µm interchangeable filter is housed in the filter holder.
- The instrument is supplied complete with a technical manual, a test report and a transport case.

