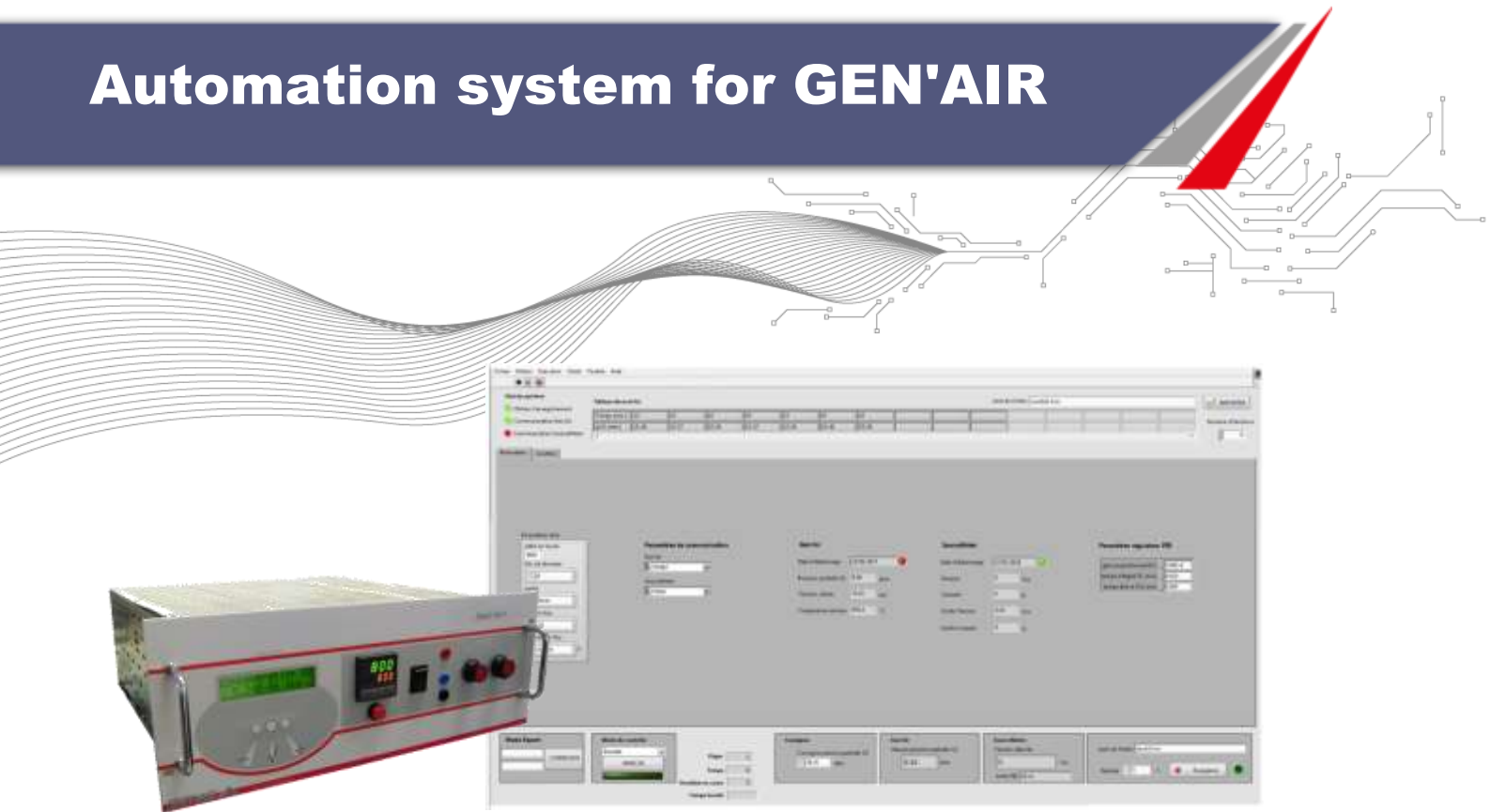


Automation system for GEN'AIR



Advantages:

- . Automatic control of the generated partial pressure.
- . Automatic monitoring of the Gen'Air through profiles' programmes.
- . Records of the obtained values.
- . Real-time display of the setting values and the measured values for oxygen partial pressure.

Customer benefits:

- . Accuracy: automatic adjustment of the voltage required by the Gen'Air to obtain the target value.
- . Time saving: programmes are carried out in hidden time; possible iteration.
- . Data security: Saved value are archived for future use.
- . Real-time display for programmes monitoring (set and measured values).



Principle

The automation system controls in real time the voltage to be applied to the Gen'Air pump. No need to use the potentiometer and the selector on the front panel of the unit. Partial pressure values are quickly obtained and more reliable (compared to the value obtained with manual settings).

The software allows the unit to operate in 2 modes:

- Continuous: the partial pressure is manually set in the software.
- Programmes: it is possible to program profiles according to the required partial pressure of oxygen and the required duration of each step. The number of steps and iterations are not limited.

In both cases, it is possible to record partial pressure, cell voltage, oven temperature and time (date+time) data.

Technical features

Measurement range	PO ₂ : 10 ⁻³⁵ to 0,25 atm*
Necessary flow	1 to 12 l/h**
Output signals	RS232 port
Dimensions	430x170x430 mm (wxhxd) for the Gen'Air 430x89x213 for the sourcemeter
Weight	15 kg for the Gen'Air 5 kg for the sourcemeter
Power supply	230 Vac – 50/60 Hz
Power	550 VA

*** Measurement of trace oxygen with a zirconia sensor remains delicate insofar as the presence of trace of combustible component impurities may create instability. More specifically inside the 10⁻⁹ to 10⁻¹² atm O₂ interval. The use of buffered mixtures enables generating reducing atmospheres under control.*

*** The flow is controlled by an external system. We advise the use of a mass flow controller (please contact us).*

Specifications are subject to change – for improvement purposes – without notice.