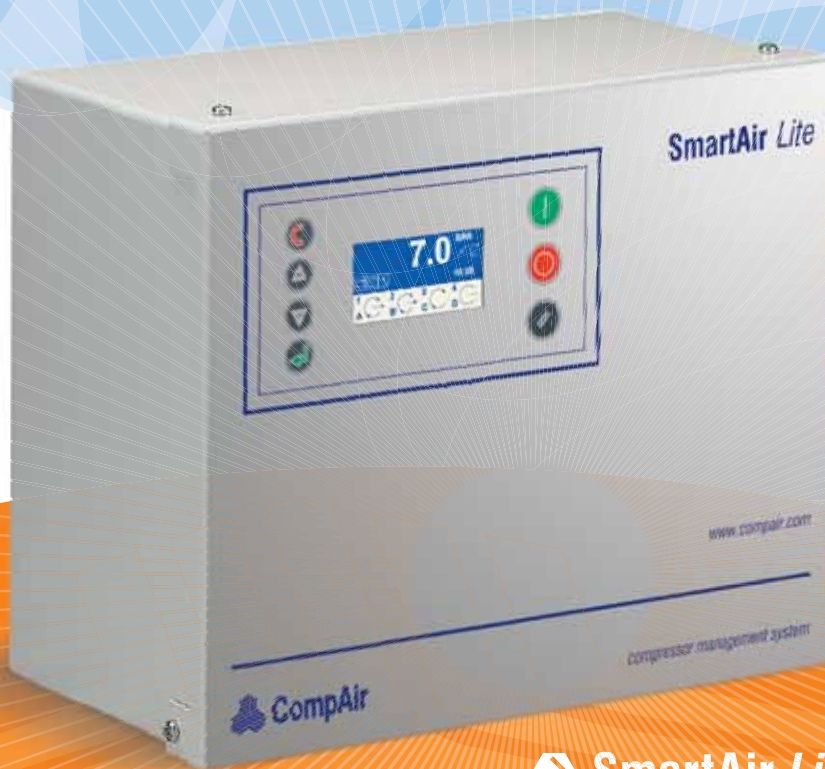


## COMPRESSED AIR INTELLIGENT SYSTEM CONTROLLER



⇒ *SmartAir Lite*

INTELLIGENT AIR TECHNOLOGY



⇒ *SmartAir Lite – Smart controller to lighten your energy bills*

- ⇒ Clear display with individual compressor status
- ⇒ Pre-set control modes
- ⇒ Pre-programmed for easy connection
- ⇒ Simply installation for non CompAir machines with only one i-PCB
- ⇒ Efficient system control with savings up to 30 %



**smart  
& lite  
control  
com**



**SmartAir Lite harmonising the energy consumption of up to 4 compressors**

### ⇒ TAKE CONTROL

Energy efficiency should be at the top of any compressed air user's priority list no matter how large or small the compressors are. The fact still remains that energy accounts for up to 80% of the total cost of owning a compressor. To optimise energy usage and energy efficiency in any system using multiple compressors an intelligent system controller is essential.

### ⇒ ENERGY REDUCTION

In compressed air systems where individual compressors run without a central control between 10 to 50% of energy could be wasted. To help customers achieve the highest levels of system efficiency CompAir has introduced the **SmartAir Lite** to its existing compressed air management range.

### ⇒ TOTAL SYSTEM SOLUTION

In addition to the more sophisticated SmartAir Master which is designed to control up to 12 compressors both fixed and variable speed, the **SmartAir Lite** is designed to intelligently control up to 4 fixed speed compressors, and offer the compressor system the highest level of efficiency. This is achieved by controlling the overall system pressure band and reducing it to the lowest operating point as well as optimising and managing compressor selection.



## ⇒ OPERATING MODES

System set up and operating modes can be seen and changed via the clear and easy to use LED display.

**Three pre-programmed operation modes are:**

- FIFO – First in first out
- Equal running hours
- Timer rotation

The highest system efficiency and reliability is achieved by running the system in the most suitable mode for the application.



**on savings  
on cost  
ling up to 4  
pressors**



## ⇒ YOUR BENEFITS

### **Real time clock**

Allows the accurate operation of the enhanced features

### **System pre-fill**

Utilising the real time clock the **SmartAir Lite** will automatically start the compressor station allowing you to pre-fill your system ready for production.

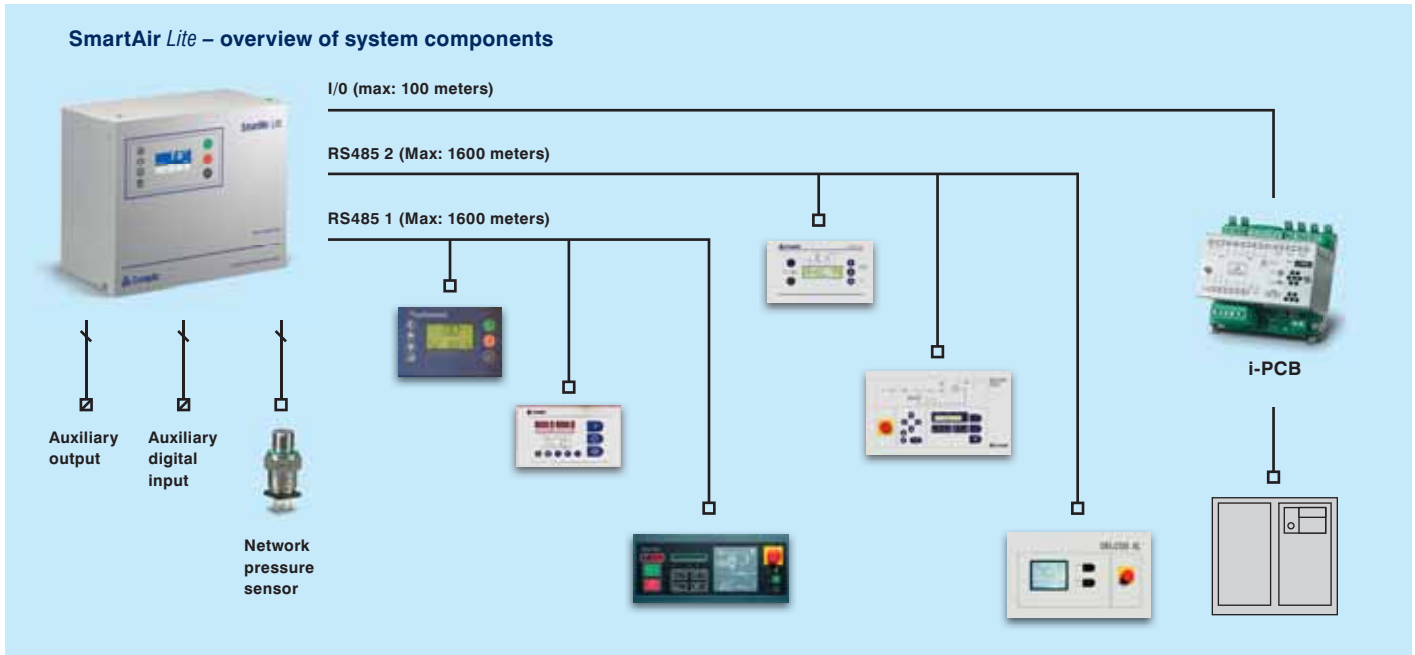
### **Priority settings**

Allows priority selection of compressors to optimise efficiency

### **Pressure scheduling**

When different pressures are required to suit individual processes the **SmartAir Lite** can be pre-programmed to adjust the system pressure and reduce energy.

## INSTALLATION OVERVIEW



## TECHNICAL DATA

| Electrical Connection              |  |
|------------------------------------|--|
| <b>Voltage</b>                     | 230Vac +/- 10% 115Vac +/- 10%  |
| <b>Approvals</b>                   | CE, UL, cUL  |
| Functionality                      |  |
| <b>Display</b>                     | 128 x 64 graphical back lit LCD  |
| <b>Processor</b>                   | 16 bit ST 10 Micro processor   |
| <b>Modes of control</b>            | First in first out, Equal hours, Timer rotation                                    |
| <b>Features</b>                    | Pre-fill, Sequence rotation, priority settings, pressure schedule, real time clock |
| Interface                          |  |
| <b>Digital inputs</b>              | 1 x Menu selectable single function digital input                                  |
| <b>Auxiliary outputs</b>           | 1 x Menu selectable single function digital output                                 |
| Compressor Connection              |  |
| <b>Quantity</b>                    | Up to 4 Fixed speed air compressors  |
| <b>Interface</b>                   | 2 x RS485 and i-PCB (I/O)  |
| <b>Distance from SmartAir Lite</b> | RS485 1600 meters<br>4–20mA pressure signal cable: 100 meters                      |
| Ambient Conditions                 |  |
| <b>Operation</b>                   | Min. 0°C to Max 46°C   |
| <b>Humidity</b>                    | Max. 95% RH  |

| EMC Conformity   |                               |
|--|-------------------------------|
| <b>Emissions</b>   | DIN EN61000-6-4:2007          |
| <b>Interface suppression</b>                               | DIN EN61000-6-2:2005          |
| Housing  |                               |
| <b>Dimensions (W x H x D)</b>                              | 286 x 236 x 152 mm            |
| <b>Protection Type</b>                                     | IP54 NEMA12                   |
| <b>Weight</b>  | 6.4 kg                        |
| <b>Mounting</b>  | 4 x fixing screws, wall mount |
| Scope of Supply  |                               |
| <b>SmartAir Lite</b>                                       |                               |
| Pressure sensor  |                               |
| Set of cable glands  |                               |
| Set of connector plugs                                     |                               |
| Options  |                               |
| i-PCB  |                               |
| Network gateways for modbus master, profibus and devicenet |                               |

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.

