



SmartAir Master



Efficiency. Performance. Monitoring.

Great energy saving potential

Energy management is crucial for all compressed air users, as the highest cost factor of a compressor is the energy to run it. Over a period of five years, energy accounts for roughly 80% of the total costs.

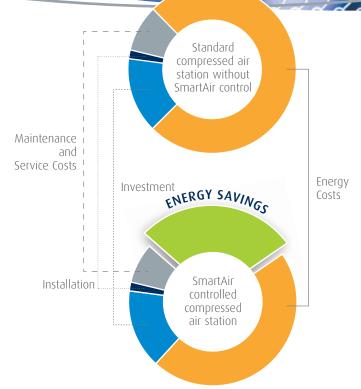
However, this high percentage of energy use also means that there is potential for high cost savings.

Compressed air systems typically comprise of multiple compressors delivering air to a common distribution system. The combined capacity of those machines is generally greater than the maximum site demand.

With CompAir's advanced demand responsive sequencer SmartAir Master, the efficiency of compressor stations with up to twelve compressors including downstream equipment can be maximised. Apart from the energy savings, the compressed air management system also contributes to decreased downtime, optimum performance, service and monitoring and

ultimately leads to increased plant productivity.





Up to 35% energy savings can be achieved by implementing a central SmartAir Master multi compressor controller.

A profitable investment

- Harmonises the workload of up to 12 fixed or regulated speed compressors
- Eliminates energy waste by tightening the network pressure to the narrowest pressure band
- Equalises the running hours for economic servicing and increased uptime





The powerful control tool

The touchscreen display allows plant managers a comprehensive overview of the complete system including downstream equipment to help improve the complete network performance.

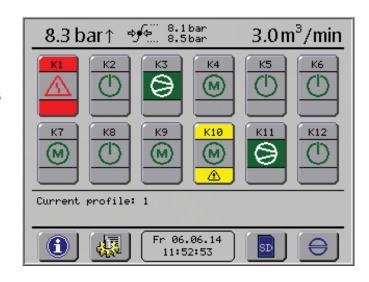
A modern set-up assistant guarantees a short set-up time by guiding the user through the process.* All input parameters are individually confirmed ensuring each setting is correct.

The additional help function gives access to connection diagrams and controller settings.

Convenient operation

CompAir's state-of-the-art SmartAir Master compressed air management system has been designed and developed with focus on operator convenience and ease of installation. Thanks to the graphical presentation, the sequencer is very user-friendly and is operated via the intuitive touch-screen panel. The home page gives a clear overview of the compressed air station.

- Network pressure, pressure range and compressed air consumption
- Individual status display of each compressor connected
- Fault and warning message for each compressor listed along with the exact time and date in plain text fault memory
- Operating and load hours of every individual compressor





Versatile control functions

The SmartAir Master sequencer calculates the system demand and selects the most suitable compressor combination to meet exactly the plant requirements , which in turn offers significant energy savings.

Unlike conventional control systems, further equipment such as dryers, filters and condensate drains can be included, ensuring the complete compressed air system works at optimum performance.

All performance characteristics are logged on the integrated SD card providing further analysis options of the system performance.

Characteristics of each compressor

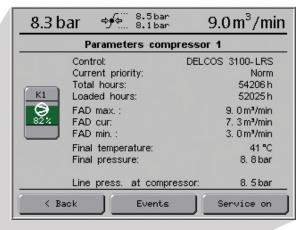
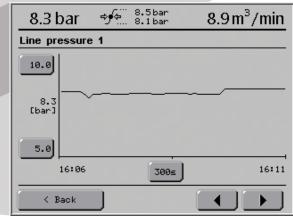


Diagram display





The power of visualisation

Remote monitoring and visualisation

Several options are available for system data to be viewed at remote locations including the internet.

SmartAir Master Connectivity

- The complete air installation can be monitored via field bus. These features include warning indication, compressor shutdown warning and maintenance scheduling. An easy connection to a Profibus or ModBus-RTU network is ensured.
- Via LAN network the complete compressed air installation can be visualised. An unlimited number of users can access the online visual display system via the optional webserver module without any loss in speed. The users can visualise selected data of the compressor system via PC. Email messaging ensures automatic notification of faults, warnings and statistics.





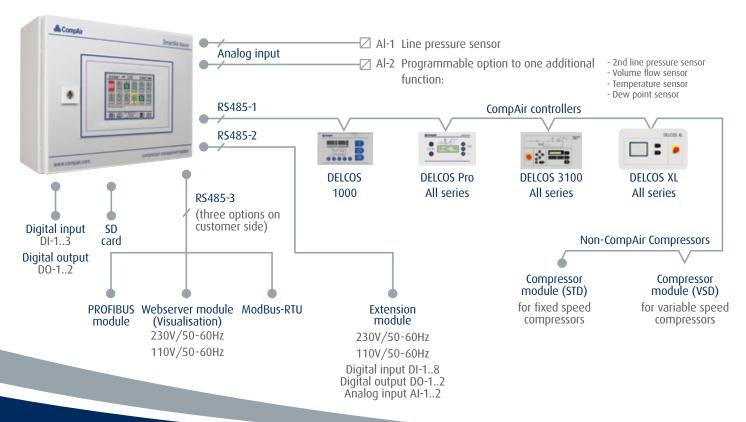
Advanced Microprocessor Technology

Safe and fast exchange of large amounts of data is ensured by large memory capacity using the latest microprocessor technology.

- Easy installation
- Low investment costs
- Up to 35% energy savings
- Reduced downtime

- User-friendly operation
- Detailed management reports
- All CompAir controllers can be connected without extra hardware

SmartAir Master connectivity





CompAir SmartAir Master - Technical Data

Electrical connection		
1~/N/PE		
110/230V +/-10% 50/60 Hz		
Display		
Colour graphics display with touch function		
5, 7"		
2		
3		
2		
Memory card		
SD card		
Connection for compressors		
max. 12 compressors		
max. 12 compressors		
RS485		
RS485		
RS485		
RS485 max. 1200m		
RS485 max. 1200m RS485		
RS485 max. 1200m RS485 max. 1200m		

-25 to 75°C

Storage

EMC Conformity		
Emissions	DIN EN 610000-6-3	
Interface suppression	DIN EN 610000-6-2	
Housing		
Dimensions (W x H x D)	380 x 300 x 155 mm	
Design	Steel plate housing	
Type of protection	IP54	
Weight	11kg	

Scope of supply

- SmartAir Master including cable glands
- Network pressure sensor
- Set of pluas for connecting to compressor controllers
- SD card
- Documentation

Options		
Compressor module (STD)	For connecting fixed speed compressors	
Compressor module (VSD)	For connecting variable speed compressors	
Extension module	For extending the programmable inputs / outputs	
PROFIBUS module	For connection to a PROFIBUS network	
Webserver module	For visualising via LAN	







Global experience - truly local service

With over 200 years of engineering excellence, the CompAir brand offers an extensive range of highly reliable, energy efficient compressors and accessories to suit all applications.

An extensive network of dedicated CompAir sales companies and distributors across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

As part of the worldwide Gardner Denver operation, CompAir has consistently been at the forefront of compressed air systems development, culminating in some of the most energy efficient and low environmental impact compressors on the market today, helping customers achieve or surpass their sustainability targets.



Advanced Compressor Technology Lubricated

- Rotary Screw
 - > Fixed and Regulated Speed
- Piston
- Portable

Oil-Free

- Water Injected Screw
 - > Fixed and Regulated Speed
- Two Stage Screw
 - > Fixed and Regulated Speed
- Piston
- High Speed Centrifugal Quantima®

Complete Air Treatment Range

- Filter
- Refrigerant and Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer
- Nitrogen Generator

Modern Control Systems

- CompAir DELCOS Controllers
- SmartAir Master Sequencer

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.

Value Added Services

- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

- Custom Engineered Solutions
- Local Service Centres
- Genuine CompAir Parts and Lubricants

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