

GD Connect 12

System Controller



State-of-the-art Technology
Maximum Energy Efficiency
Easy User Guidance

GD
GARDNER DENVER

Experience Proven Results™

GD Connect 12

State-of-the-Art Technology



- Easy to install
- Improved performance and efficiency
- Simple to operate
- Detailed management reports

Unique Compressed Air Management System

Compressor systems are typically comprised of multiple compressors delivering air to a common header. The combined capacity of these machines is generally greater than the maximum site demand. To ensure the system is operated to the highest levels of efficiency, the **GD Connect 12** management system is essential.

MAXIMUM FLEXIBILITY

The **GD Connect 12** system controller can intelligently control up to 12 fixed speed and/or variable speed compressors.

- Intelligently selects the right combination of compressors.
- Reduces energy consumption by tightening the network pressure to the smallest possible band.
- Ensures off-load running is kept to the absolute minimum.

Advanced Microprocessor Technology

Safe and fast exchange of large amounts of data is ensured by large memory capacity using the latest microprocessor technology at the heart of the **GD Connect 12**.

The system software can also be updated quickly to accommodate the very latest functions and technology developments.



Unique Setting-Up Function

Thanks to our modern Commissioning Wizard the setup time is kept to a minimum.

Gardner Denver has designed the controller to be very easy to install, with a series of on-screen prompts that guide users through the set up and confirm when each parameter has been programmed correctly.

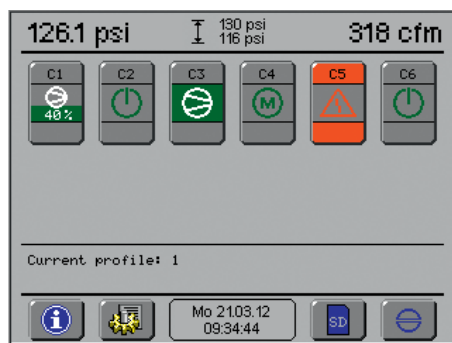
EASY-TO-USE TOUCHSCREEN DISPLAY

GD Connect 12 provides a variety of performance data on a visual touchscreen, giving plant managers a comprehensive overview of the complete system, including downstream equipment to help improve the complete network performance.

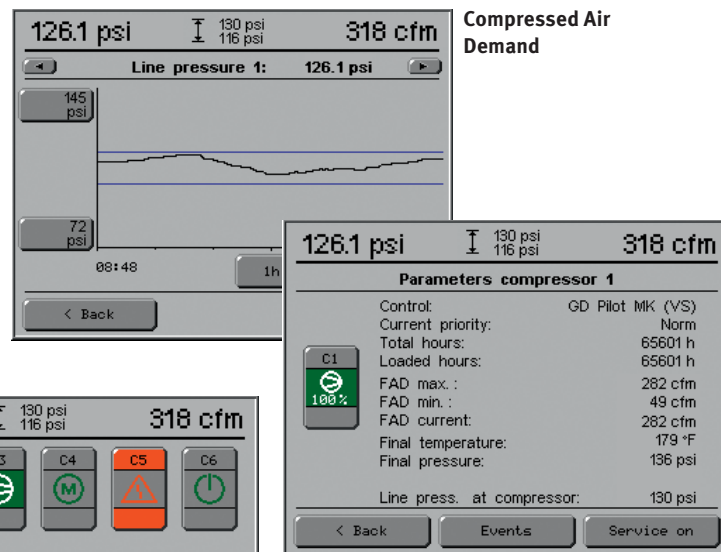
This can include information such as the status of the whole system or of each compressor connected, as well as network pressure, compressed air consumption and pressure range, all of which can be presented in graphs or tables.

In addition, data can be transferred via removable SD card to a PC for further analysis and management reports.

User Friendly
Intuitive Display



Additionally once each compressor is connected to the **GD Connect 12**, the user will only need to enter a minimal amount of information as the controller will identify all the units in the system.

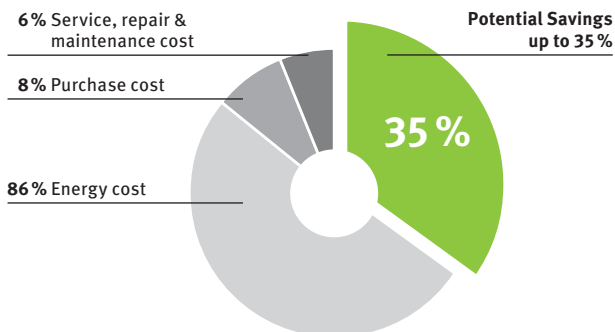


Characteristics of each Compressor

ABILITY FOR HUGE ENERGY EFFICIENCY

The **GD Connect 12** is the first choice when looking to optimize an existing compressed air system. The pressure reductions are achieved as a result of the narrow pressure band control helping to considerably reduce power consumption both of small and larger compressed air systems.

COST OF COMPRESSED AIR OVER 5 YEARS



EXTENSIVE VISUALIZATION OPTIONS

A local network connection (LAN) can be installed, allowing system data to be viewed using the optional web server module.

Any number of users can access the online visual display system via the web server without any loss in speed.



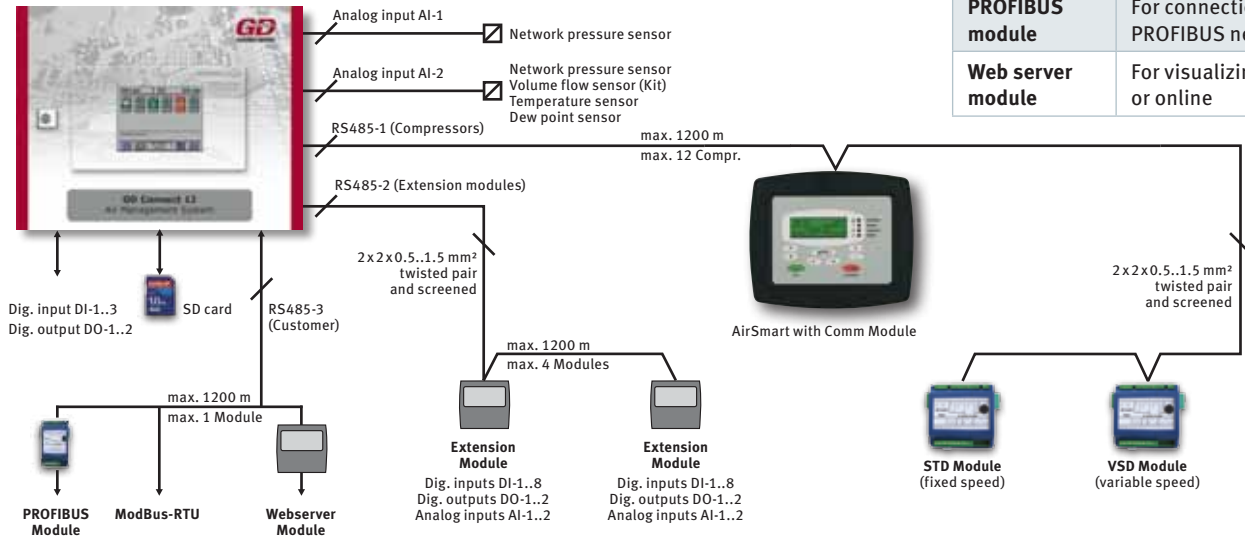
TECHNICAL SUMMARY

ELECTRICAL CONNECTION	
System	1~/N/PE
Voltage	110/230 V +/- 10% 50/60 Hz
Approvals	CE
DISPLAY	
Type	Color graphics display with touch function
Screen size	5.7"
INTERFACES	
Analog inputs (2) / Digital inputs (3) / Relay outputs (2)	
MEMORY CARD	
Type	SD card

CONNECTION FOR COMPRESSORS	
Quantity	max. 12 Compressors
Interface	RS485
Distance from GD Connect 12	max. 1200 m
CUSTOMER INTERFACE	
Interface	RS485
Distance from GD Connect 12	max. 1200 m
Protocol	ModBus-RTU or PROFIBUS (optional)
PERMISSIBLE AMBIENT TEMPERATURES	
Operations	32 to 131° C
Storage	-13 to 167° C

EMC CONFORMITY	
Emissions	DIN EN 61000-6-3
Interference suppression	DIN EN 61000-6-2
HOUSING	
Dimensions (W x H x D)	14.96 x 11.81 x 6.10 inches
Design	Steel plate housing
Type of protection	IP54
Weight	24 lbs
OPTIONS	
Compressor module (STD)	For connecting standard external compressors
Compressor module (VSD)	For connecting speed-controlled external compressors
Extension module	For extending the programmable inputs / outputs
PROFIBUS module	For connection to a PROFIBUS network
Web server module	For visualizing via LAN or online

GD CONNECT 12



Gardner Denver®

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