Presscon DDC – the total air-conditioning control solution

Presscon is a modular, networked control system for your HVAC no matter how big or small.

Presscon consists of a range of modules which are connected via a common databus (using industry standard Lonworks® protocol). The databus can be extended over kilometers and include hundreds of devices.

Each Presscon controller controls 8 HVAC plant with user friendly display and control options such as manual over-ride and settings adjustment (password protected if preferred)

All Presscon modules are DIN rail mount and feature pluggable electrical connections for simplified installation and quick field changeover.

Whether you need control in factories, office buildings, supermarkets, luxury homes, tenanted buildings, shopping centers - Presscon offers a scalable and powerful control and monitoring solution.

Each DDC controller can control eight areas or plant. Connect as many as required for the whole system.
** Coming soon the new Super control in the same package which will offer hundreds of available channels and enhanced functionality including general purpose PLC programming based on international industry standard IEC 1131-3.

DDC Controller features on each of 8 Plant
4 Heat, 4 Cooling stages with programmable delays, analogue heat and cool control, fan speed con trol, full 265 day time clock function, local over-ride for after hours operation, economising and setback function... and much more!

Input card accepts 32 inputs including pressure, temperature, digital inputs

Interface card includes 2 high speed RS232 ports, clock, 8MB Datalog-

Output card 8 Relay outputs 240VAC5A, 2 0-10V DC analogue

HVAC control in all types of buildings

Power supply 12V DC 5A, includes power filtering & surge protection

Presscon can also control and monitor refrigeration systems of all types

PHASEFALE

C O N T R O L

M O N I T O R

P R O T E C T

www.phasefale.com.au sales@phasefale.com.au +6139553 0800

Pressnet – software for Presscon Refrigeration and Air-conditioning Systems

Pressnet Software allows you to access and control Phasefale's Presscon refrigeration and air conditioning control system. From Pressnet you are able to view and change the current system status, check previous events and trends. User friendly, Pressnet software works exactly the same onsite or remotely with a range of connection options including internet, direct PC connection or dial up access over phone lines.

Pressnet has been designed to show problems by exception – so all staff can easily be trained to spot problems and react accordingly. But dig deeper and technical users can analyze problems using the powerful diagnostic tools included.

Pressnet software is also available in a "Lite" version*, where a dedicated onsite PC is not required, for a lower installed cost. Both versions are intelligent enough to automatically configure themselves to Presscon, so can be used straight away without complicated installation or configuration. If required, a customized site layout screen is simply setup.

So for easy, total control of your refrigeration or AC plant, whether on site or remotely, Pressnet Software provides a total solution.

Pressnet layout is clean and simple to use
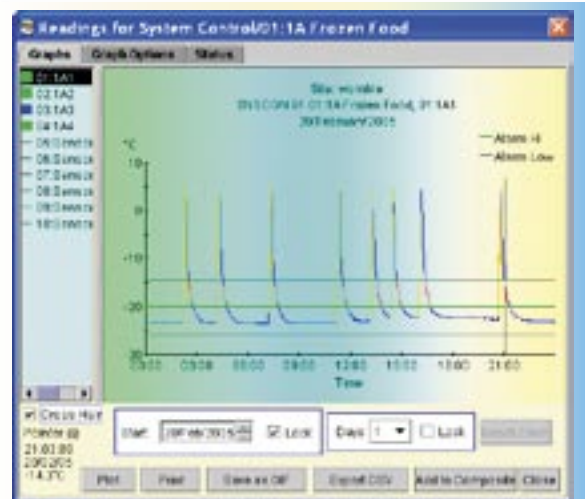
History functions for total recall
- Traceable history log of user access and operations
- Search functions in history logs
- offline programming and saving of controller data
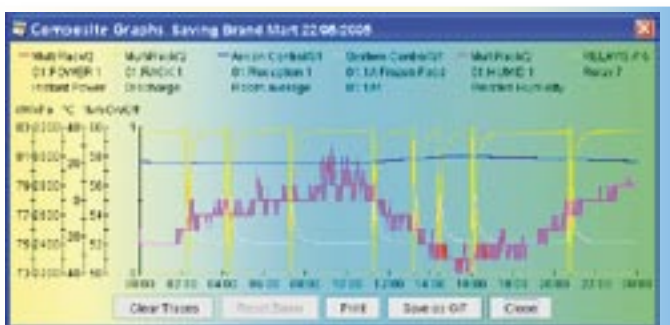
User friendly operation
- Site layout designed for non technical users
- "At a glance" system status for quick recognition of alarm events
- 4 user access levels with unlimited users
- Quickly and easily change setting and status of system
- Automatic configuration to connected Presscon
- Free on-line updates to program via website
- Customize the site layout to suit the specific site requirements.
- Access to unlimited sites from a single screen

Powerful, flexible Graphing
- Graphs include color coded trace to match system status including defrosts, alarm etc.
- View data back to installation date
- Highly detailed graphs with 1 minute resolution & accurate crosshair function
- Composite graphs allow mixing of different parameters (e.g. temperature & pressure)
- Graph export functions to spreadsheet for detailed analysis
- Graphs saved in memory from commissioning date forward

System status is displayed with color coded traces

Composite graphs allow comparison of different parameters

** **Pressnet Lite** contains most of the features of Pressnet, the main exeptions being memory limitations (8MB) and recording timebase (5 minutes compared to 1 minute)*

PHASEFALE

CONTROL

MONITOR

PROTECT

A revolution in environmental control for all premises, is here and now.

HOMES

FACTORIES

HOSPITALS

SCHOOLS

The Presscon DDC System.

Now environmental control is easier and more affordable than ever before, thanks to the new Presscon system.

Equally at home in a luxury residence and a large office building, Presscon offers performance comparable to the most sophisticated systems for the price of a regular AC control.

Presscon DDC combines proven Phasefale hardware – including the technology developed in our Presscon refrigeration controller with sophisticated new monitoring and control software. It can be controlled from a central PC using the Windows-based software – provided free of charge, or directly through the interface on the wall-mounted monitor.

Suitable for all types of air conditioning applications.

With advanced power-saving features including economising, intelligent start, setback, and multiple sensor averaging, Presscon is the ideal environmental control solution for your customers' needs.
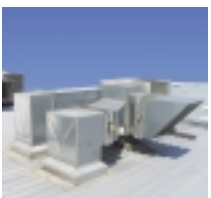
Advanced features:

- Energy-efficient with economising function

- Simple, easy-to-use wall-mounted screen, plus centralised Windows-based PC control option

- Suitable for offices, supermarkets, homes and more

- Seven-day clock program with manual override

- Can average up to four sensors

- Controls from eight to hundreds of major AC plants

- Can interface with refrigeration control systems in supermarkets for remote communication

- Programmable 16-character description for each AC plant controlled

- Proportional heating and cooling outputs

- Fire safety functions, alarm warnings and fault inputs

- Dehumidification control

- Able to control other equipment (lights, etc.)

Computer controlled

Presscon comes complete with windows based software to give you total control over your environment.

User friendly wall mounted controller

Presscon's easy to use wall mounted control unit gives you total control at your finger-tips. Once your settings are entered into the controller, full automation of your air conditioning takes over. So no matter whether its hot or cold outside, you'll be at the temperature what you programmed in.
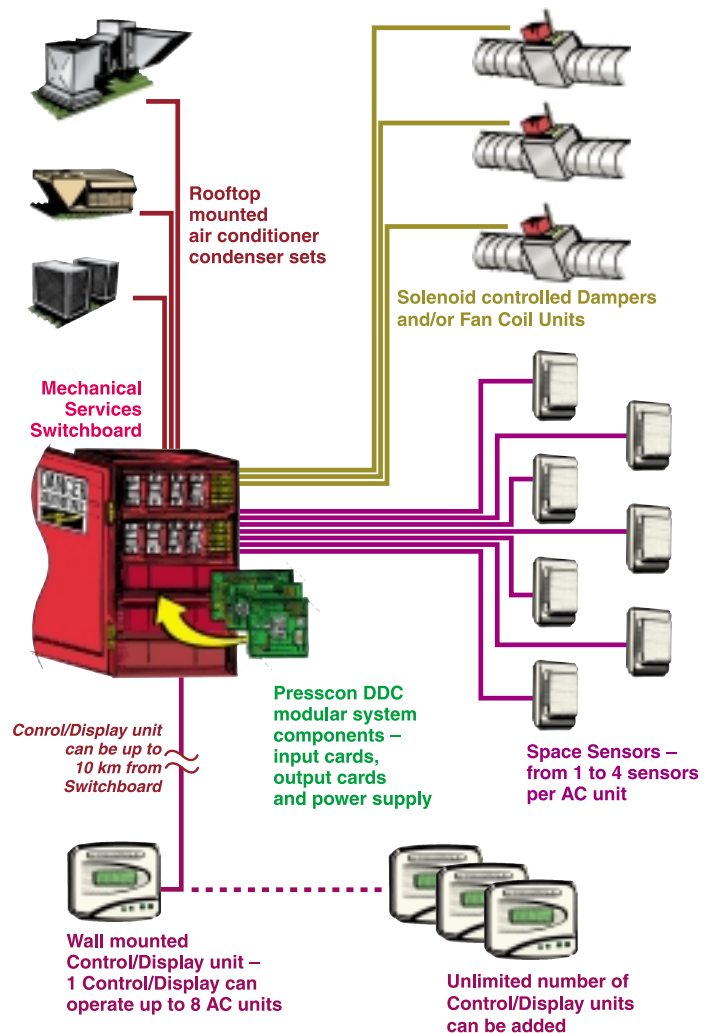
Roof mounted units

Presscon DDC is the ideal system to control multiple packaged units.

Automatic control of air conditioning

Automatic control over the whole air conditioning systems ensures slight temperature changes are attended to immediately and automatically with maximum energy efficiency.

Presscon DDC – typical layout for air conditioning system

Rooftop mounted air conditioner condenser sets

Solenoid controlled Dampers and/or Fan Coil Units

Mechanical Services Switchboard

Presscon DDC modular system components – input cards, output cards and power supply

Space Sensors – from 1 to 4 sensors per AC unit

Conrol/Display unit can be up to 10 km from Switchboard

Wall mounted Control/Display unit – 1 Control/Display can operate up to 8 AC units

Unlimited number of Control/Display units can be added

The Presscon DDC System is ideal for use in:

- Luxury Homes
- Flats and Apartments
- Hotel/Motels
- Supermarkets
- Retail Stores
- Hospitals
- Retirement Villages
- Restaurants
- Banks

Presscon DDC - a modular approach

Presscon DDC achieves cost effectiveness with the ability to control large sites by using modular system components which communicate by a simple data bus connection.

The main System specifications are as follows:

Communications	Lonworks Protocol RS485/38kB	**Inputs**	Resistance/Thermistor- NTC Precision Type Voltage 0-6V DC Switch (Volt Free)
Power Supply	110-240V AC 0.01A~0.25A	**Output**	12-240V AC 5A [resistive] 0-10V DC, 10mA
Board Power Supply	12V DC [current varies]		

System Components	Part #	Description	Used For
	PR/DDC	Wall mounting Controller/ Display/Keyboard	User interface, display and adjustment of system. Programming of system using access code. Each controller controls 8 Air Conditioning plant.
	PR/SENS8	Sensor Input Card 8 channel	Connecting to temperature sensors, humidity transmitters and over-ride input switches etc. For small sites.
	PR/SENS32	Sensor Input Card 32 channel	Connecting to temperature sensors, humidity transmitters and over-ride input switches etc. For larger sites.
	PR/REL	Relay Output Card 8 Channel (8 relay + 2 analogue outputs 0-10v)	Connecting to AC plant to control fans, heating, cooling, modulating dampers, hot water valves, gas boilers etc.
	PR/PB60	240-12V Power Supply 60W	12V Power supply for Presscon DDC includes mains filtering circuitry.
	MPROBE/W	Temperature Sensor -Wall mounting	For monitoring space temperatures. A precision sensor with 0.2°C accuracy.
	MPROBE/D	Temperature Sensor - Duct Mounting	For monitoring temperatures in air ducts. A precision sensor with 0.2°C accuracy.
	PR/CLMOD	System Clock and PC interface	Full time and date functionality for system plus an RS232 interface for PC connection and monitoring
	PR/PCINT	System Clock and Internet PC interface	Full time and date functionality for system plus an high speed RS232 interface for Internet PC connection.
	PR/LOG	Data Logging Card 4 Megabytes	Provides data logging/trending of all system temperatures (approx 2 years data @ 5 minutes for 16 HVAC plant)
	PR/PIN	Windows PC Software	Monitoring/Control of Presscon DDC. A free version controls 2 display/ keyboard units (ie. 16 HVAC plant)
	PR/PRESSNET	Internet Server	Monitoring/Control of Presscon DDC. Internet Based Solution to Presscon Control.
	PR/PIN	Windows PC Software	Monitoring of Presscon DDC. A free version controls 2 display/ keyboard units (ie. up to 16 Air Con plants)

The buildings represented in this brochure are representative only and do not necessarily have Phasefale DDC controls fitted.