



## CONTROL SYSTEMS LP110 Compressor Pack Suction Pressure Controller



### For compressor pack suction pressure control.

- Stand alone or networked
- Controls up to 4 single stage compressors
- Compressor 1 can be speed controlled
- Unequal capacity compressor control
- Controlled start up and balanced run hours
- Short cycle prevention
- For use with HFC and CO2 refrigerants
- Battery supported real time clock
- Set up parameters maintained for restart



### Product Data

#### Compressor Control

The LP110 includes control strategies for various combinations of compressor with unequal capacity, variable speed, run hour balancing and energy optimisation.

#### Alarms

The LP110 will monitor and alarm on 1 pressure and up to 7 digital inputs for compressor and inverter faults, low level liquid, and auto/manual control switch. Alarms can be displayed locally or announced through the JTL Network.

#### Display

The LP110 will drive a display detailing operational pressure and alarm messages.

#### Remote Access

If operating within a JTL Network, alarm parameters and alarm settings can be viewed and adjusted remotely.

#### Suction Pressure Optimisation

Pack energy usage can be reduced by up to 20% by integrating the pack controller with JTL's OP series of optimisers, please refer to separate product datasheet.

#### Discharge Pressure control

The LP110 controller works in conjunction with JTL discharge pressure controls type HPxxx.

## Hardware

Pressure transducer inputs .....	1
Pressure display drives .....	1
Voltage-free contact outputs .....	8
Voltage-free inputs .....	8
Datalogging memory capacity .....	1000 points on 4 channels

## Technical Specification

Pressure inputs .....	4-20 mA
Pressure input 1 .....	Suction pressure
Output 1 .....	Watchdog
Output 2 .....	High suction pressure
Output 3 .....	Run compressor 1
Output 4 .....	Run compressor 2
Output 5 .....	Run compressor 3
Output 6 .....	Run compressor 4
Output 7 .....	Run inverter
Output 8 .....	Not used
Relay output rating .....	2 A resistive (240 V max)
Input 1 .....	Auto/manual control switch
Input 2 .....	High discharge pressure
Input 3 .....	Compressor 1 OK
Input 4 .....	Compressor 2 OK
Input 5 .....	Compressor 3 OK
Input 6 .....	Compressor 4 OK
Input 7 .....	Inverter OK
Input 8 .....	Low liquid level
Communications port .....	RS485 2 wire
Communications data rate .....	4800 baud
Communications protocol .....	JTL Jnet zone protocol
Unit dimensions boxed (W x H x D) .....	105 x 120 x 79 mm
Unit weight boxed .....	0.45 kg
Power supply (standard) .....	230 V 48-62 Hz
(optional).....	24 V

## Ordering Information

LP110 .....	Controller
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### Power Supply Options:

For 24 V append -24 to order code



This unit conforms with the relevant EU standards when fitted in accordance with its installation instructions.

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