



CONTROL SYSTEMS LP310 Compressor Pack Suction Pressure Controller



For compressor pack suction pressure control.

- Stand alone or networked
- Controls up to 4 compressors
- Single stage compressors
- One variable speed compressor selection
- 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 LP310 includes control strategies for various combinations of unequal capacity, variable speed, trim compressor, run hour balancing, energy optimisation.

Alarms

The LP310 will monitor and alarm on 1 pressure and up to 8 digital inputs, for low level liquid, high discharge pressure, inverter healthy and auto/manual control switch. Each compressor can be monitored via fault inputs and alarms can be displayed locally or announced through the JTL Network.

Display

The LP310 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 LP310 controller works in conjunction with JTL discharge pressure controls type HPxxx.

Hardware

Pressure transducer inputs	2
Pressure display drives	1
Voltage-free contact outputs	8
Voltage-free inputs	8

Technical Specification

Pressure inputs	4-20 mA
Pressure input 1	Suction pressure
Pressure input 2	Not used
Output 1	Critical alarm
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	Watchdog
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 healthy
Input 8	Low liquid level
Communications port	RS485 2 wire
Communications data rate	4800 baud
Communications protocol	JTL Jnet zone protocol
Ethernet Port	10/100 Base T
Unit dimensions boxed (W x H x D)	105 x 120 x 79 mm
Unit weight boxed	0.43 kg
Power supply (standard)	230 V 48-62 Hz
(optional).....	24 V

Ordering Information

LP310	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.

Doc No. 04222 LP310.pmd Issue 1 Oct 2013

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