

For compressor pack suction pressure control.

- Stand alone or networked
- Controls up to 12 compressors
- Single and multistage 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 LP410 includes control strategies for various combinations of compressor with unloaders, unequal capacity, variable speed, trim compressor, run hour balancing, energy optimisation.

Interface Units

A range of interface units are available to enable the designer to configure the controller to meet the exact requirements of the system.

Alarms

The LP410 will monitor and alarm on 1 pressure and up to 6 digital inputs, for low level liquid, low oil level, high discharge pressure, plant fault, optimiser enable and auto/manual control switch. Each compressor can be monitored via fault inputs on associated plant interface units and alarms can be displayed locally or announced through the JTL Network.

Display

The LP410 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 LP410 controller works in conjunction with JTL discharge pressure controls type HPxxx.

Hardware

Pressure transducer inputs	2
Pressure display drives	1
Voltage-free contact outputs	2
Voltage-free inputs	6

Technical Specification

Pressure inputs	4-20 mA
Pressure input 1	Suction pressure
Pressure input 2	Not used
Output 1	Watchdog
Output 2	High suction pressure
Relay output rating	2 A resistive (240 V max)
Input 1	Auto/manual control switch
Input 2	High discharge pressure
Input 3	Enable optimiser
Input 4	Low liquid level
Input 5	Low oil level
Input 6	Plant fault
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	0.45 kg
Power supply (standard)	230 V 48-62 Hz
(optional).....	24 V

Ordering Information

LP410	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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