



### For compressor pack and standalone condenser applications.

- Stand alone or networked
- Variable speed fan control (cooler 1 & 2)
- Floating head pressure control (cooler 1)
- Liquid pressure control
- Discharge superheat control (cooler 1)
- Temperature control (cooler 2)
- Set up parameters maintained for restart



### Product Data

<b>Condenser Control</b>	Controls two variable speed sets of fans.
<b>Alarms</b>	The HP140 will monitor and alarm on 2 pressure inputs, 2 temperature inputs and 4 digital inputs, for plant healthy, fans healthy and auto/manual control switch. Alarms can be displayed locally or announced through the JTL Network.
<b>Display</b>	The HP140 will drive a display detailing operational pressures and alarm messages.
<b>Remote Access</b>	If operating within a JTL Network, alarm parameters and alarm settings can be viewed and adjusted remotely.
<b>Floating head pressure control</b>	<p>Optimum control of cooler 1 can be achieved with the floating head control when installed in a JTL network with external temperature monitoring.</p> <p>Cooler 1 can be set to control either on the discharge pressure or on the liquid pressure after liquid pressure amplification.</p>
<b>Discharge superheat control</b>	Cooler 1 controller can be set to control the discharge superheat within pressure limits.
<b>Auxiliary cooler Control</b>	Cooler 2 can be set to control the cooler 2 discharge temperature fans either by simple on/off control with a deadband setting or by variable speed control.

## Hardware

Pressure transducer inputs (4-20 mA) .....	2
Pressure display drives .....	1
Temperature inputs (5k thermistor) .....	2
Voltage-free contact outputs .....	4
Voltage free inputs .....	4
Analogue output (0-10 V) .....	2
Datalogging memory capacity .....	1000 points on 2 channels

## Technical Specification

Pressure input 1 .....	Discharge pressure
Pressure input 2 .....	Liquid pressure
Temperature input 1 .....	Discharge 1 temperature
Temperature input 2 .....	Discharge 2 temperature
Analogue output 1 .....	Cooler 1 fan speed control
Analogue output 2 .....	Cooler 2 fan speed control
Output 1 (suppressed) .....	Run cooler 1
Output 2 (suppressed) .....	Multi function
Output 3 (suppressed) .....	Run cooler 2
Output 4 (unsuppressed) .....	High discharge pressure
Relay output rating .....	5 A resistive (240 V max)
Input 1 .....	Cooler 1 healthy
Input 2 .....	Cooler 2 healthy
Input 3 .....	Plant healthy
Input 4 .....	Auto/manual control switch
Communications port .....	RS485 2 wire
Communications data rate .....	4800 baud (auto detected)
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

HP140 ..... Controller

### 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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