

For Transcritical CO2 Gas Cooler and Valve Control

- Stand alone or networked
- Variable speed fan control
- Floating head pressure control
- Liquid pressure monitoring
- Discharge superheat control
- Set up parameters maintained for restart



Product Data

Condenser Control

Controls gas cooler fans and transcritical CO2 valves.

Alarms

The HP155 will monitor and alarm on 2 pressure inputs, 2 temperature inputs and 4 digital inputs, for high pressure plant healthy, fans healthy, liquid level auto/manual control switch. Alarms can be displayed locally or announced through the JTL Network.

Display

The HP155 will drive a display detailing operational pressures and alarm messages.

Remote Access

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

Floating head pressure control

Optimum control can be achieved with the floating head control when in subcritical mode.

Transcritical valve control

The HP155 controller switches between subcritical and transcritical control using the current temperature conditions. In Transcritical mode the transcritical valve is controlled to maintain the liquid at an appropriate subcooled level.

Liquid pressure monitoring

The HP155 has a separate pressure input which can be used to monitor and alarm the CO2 liquid pressure.

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 (4-20 mA)	1
Analogue output (0-10 V)	1
Datalogging memory capacity	1000 points on 2 channels

Technical Specification

Pressure input 1	Discharge pressure
Pressure input 2	Liquid pressure
Temperature input 1	Cooled gas temperature
Temperature input 2	Ambient temperature
Analogue output 1 (0-10 V)	Gas cooler fan speed control
Analogue output 2 (4-20 mA)	Transcritical valve control
Output 1	Not used
Output 2	Enable flashgas control
Output 3	Watchdog
Output 4	High discharge pressure
Relay output rating	2 A resistive (240 V max)
Input 1	Valve fault
Input 2	Fans healthy
Input 3	Low Liquid
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

HP155	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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