



## For reciprocating compressor packs and associated condenser applications.



- Stand alone or networked
- Registered for Enhanced Capital Allowance (ECA)
- Controls up to 10 compressors
- Controls up to 4 steps per compressor
- Controls up to 3 suction pressures
- Controls up to 12 condenser stages
- Unequal capacity compressor control
- Controlled start up and balanced run hours
- Variable speed fan control
- Short cycle prevention
- Battery supported real time clock
- Set up parameters maintained for restart

### Product Data

#### Compressor Control

Suitable for single or dual temperature packs and externally compounded packs with or without a controlled satellite. The EP6U incorporates unequal capacity compressor control.

#### Condenser Control

Controls up to 12 condenser stages. Built in option for variable speed fan control.

#### Defrost Control

When networked, up to 6 defrosts per day can be scheduled for each evaporator associated with the compressor pack. Controls up to 28 defrost systems and is suitable for off cycle, electric, 2 pipe, 3 pipe or ring main gas defrost.

#### 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

EP6U will monitor and alarm on 4 pressure inputs, 7 temperatures and 2 inputs, for low level liquid and auto/manual control switch. Compressor status can be monitored via fault inputs and alarms can be displayed locally or announced through the JTL Network.

#### Display

EP6U incorporates 4 individual displays 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.

#### Suction Pressure Optimisation

Pack energy usage is typically reduced by up to 20% by integrating the pack controller with JTL's OP series of suction pressure optimisers.

#### Legacy Support

Functional replacement for all JTL semi-hermetic reciprocating pack controllers

## Hardware

Pressure transducer inputs .....	4
Temperature sensor inputs .....	7
Sensor types supported .....	JTL 5 khom NTC thermistor
Pressure display drives .....	4
Pressure display types .....	Integral
Voltage-free contact outputs .....	2
Optically isolated high voltage inputs .....	2 (240 V max)
Datalogging memory capacity .....	900 points on 8 channels

## Technical Specification

Pressure inputs .....	1-6 V dc
Pressure input 1 .....	Satellite suction pressure
Pressure input 2 .....	Discharge pressure
Pressure input 3 .....	HT suction pressure
Pressure input 4 .....	LT suction pressure
Temperature input 1 .....	LT suction gas temperature
Temperature input 2 .....	HT suction gas temperature
Temperature input 3 .....	Discharge gas temperature
Temperature input 4 .....	Satellite suction gas temp.
Temperature input 5 .....	Sub-cooled liquid temperature
Temperature input 6 .....	Saturated gas
Temperature input 7 .....	Plant room temperature
Output 1 .....	Selectable
Output 2 .....	Selectable
Relay output rating .....	5 A resistive (240 V max)
Input 1 .....	Auto/manual control switch
Input 2 .....	Low liquid level
Communications port .....	RS485 2 wire
Communications data rate .....	4800/38400 baud (auto detected)
Communications protocol .....	JTL Jnet zone protocol
Unit dimensions boxed (W x H x D) .....	347 x 456 x 86 mm
Unit weight boxed .....	6 kg
Power supply (standard) .....	230 V 48-62 Hz
(optional) .....	110 V

## Ordering Information

EP6U-BD ..... Complete unit in enclosure with display

### Power Supply Options:

For 24 V append-24 to order code

For 110 V append-110 to order code



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



Doc No. 02849-EP6U-BD-datasheet.pmd Issue 4 March 2003

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