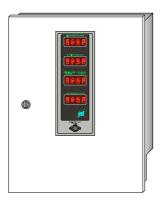
COMPRESSOR PACK CONTROLLER

CP4H



Type CP4H is a unit suitable for the control of integrated compressor packs and associated condensing and defrost systems. The unit measures up to **3 suction pressures** and maintains each pressure within adjustable limits by running or stopping compressors or by including or excluding steps of compression as appropriate. **Discharge pressure** is also monitored and is maintained within adjustable limits by increasing or decreasing steps of condensing as appropriate.

Type CP4H guards against compressor short-cycling, aims to maintain total running hours for the compressors equal throughout the lifetime of the pack and **monitors fault conditions** on each compressor.

Type CP4H may be used for externally compounded packs with a controlled satellite or standard dual temperature packs.

Up to 6 defrosts per day can be achieved on each of the refrigeration systems associated with the pack by setting a schedule of defrost start times, defrost durations and defrost patterns.

Compressors, **condensers** and **defrosts** are controlled and monitored by connecting JTL compressor pack interface units to CP4H (see separate sheet IFx-x for details).

Suction and discharge pressures together with simple alarm messages are indicated locally on the display. Type CP4H provides comprehensive **alarm reporting**, **data-logging**, remote data access and remote control of defrosts at JTL refrigeration controllers when connected to a JTL Network controller.

Can be used with off cycle, electric 2, 3 pipe or ring main gas defrost systems.

FEATURES

- ♦ Controls up to 10 compressors (up to 3 steps per compressor)
- Unequal compressor control
- ♦ Short cycle prevention
- Balanced running hours
- Controlled start up
- Satellite control
- ♦ Multiple suction control
- Variable speed compressor control
- ♦ Controls up to 7 steps of condensing (12 with bank switching)
- Variable fan speed control
- Controls up to 28 defrost systems
- ♦ 6 defrosts a day/system
- ♦ JTL pack interface communication system
- Pressure and temperature measurement inputs
- ♦ JTL Network communications
- ♦ Watchdog to ensure reliable operation
- ♦ Non-volatile set-up memory
- ♦ 4 four digit LED displays
- ♦ Battery supported datalogging
- ♦ Battery supported real time clock
- ♦ Maintenance Unit socket



HARDWARE

◆ Data-logging memory capacity 900 points on 4 channels

TECHNICAL SPECIFICATION

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
Temperature input 7 Plant room temperature

Output 1 Liquid pressure differential

valve control

Output 2 Watchdog

Relay output rating 2A resistive (240 V max.)

Communications protocol JTL zone protocol

Input 1 Auto/manual control switch

Input 2 Low liquid level

ORDERING INFORMATION

CP4H-BD Complete unit in enclosure with display

Power Supply Options:

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. 00830 CP4H_datasheet.wpd Issue 4 Mar 1996

JTL SYSTEMS LTD

Sales: 41 Kingfisher Court, Hambridge Road, NEWBURY, Berkshire, RG14 5SJ Tel: (01635) 263646
Service: 1 Petre House, Petre Street, SHEFFIELD, S. Yorks, S4 8LJ Tel: (0114) 256 0908