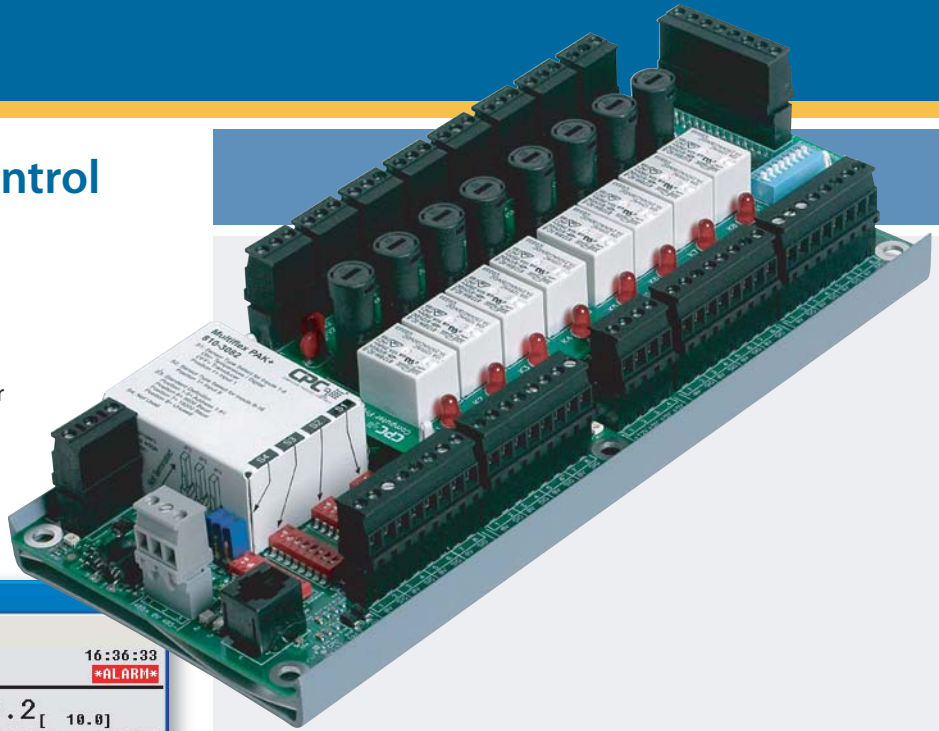


pak

Compressor / Condenser Control

The PAK is an extremely versatile digital controller for multi-compressor pack and condenser applications.

The PAK offers full stand alone control capability together with network connectivity to enable integration into various different management systems.



Terminal Mode

05-07-06 RX-500 Unit 1 16:36:33
Press 'Log In/Out' to Log On PAK STATUS *ALARM*

Suct: 13.6 [12.0] TD: 13.2 [10.0]
Suct Temp: -10.3 Cond Temp: 35.4 Disch: 220.8
Liq Level: 0.16 Amb1 Temp: 22.8 Cond Amps: 6.3
Comp Amps: 55.2 Amb2 Temp: 21.7

| COMP | HP/AMP | STAT | PROOF | DISCH | COMP | STATUS | GRP # | COND FAN | HP/AMP | STAT |
|-------|--------|------|-------|-------|------|--------|-------|----------|--------|------|
| Grp 1 | 6 | ON | OK | 74.2 | 1 | ON | 1 | Stage 1 | 2 | ON |
| Grp 2 | 6 | ON | OK | 86.7 | 2 | ON | 2 | Stage 2 | 2 | ON |
| Grp 3 | 6 | ON | OK | 74.6 | 3 | ON | 3 | Stage 3 | 2 | OFF |
| Grp 4 | 6 | ON | OK | 77.6 | 4 | ON | 4 | Stage 4 | 2 | OFF |
| Grp 5 | 6 | OFF | FAIL | 36.0 | 5 | OFF | 5 | | | |
| Grp 6 | 6 | ON | OK | 80.1 | 6 | ON | 6 | | | |
| Grp 7 | 6 | ON | OK | 79.2 | 7 | ON | 7 | | | |
| Grp 8 | 6 | ON | OK | 79.4 | 8 | ON | 8 | | | |

COMP Strategy: COMP Mode:
Cyclic Max Cap

COND Mode:
Cond Spray

PAK State: Online

Network Capabilities

Network connections enable the PAK to communicate with third party management devices such as the Einstein and Einstein E2. The PAK comes as standard with a CPC 485 interface for the Einstein/E2 panels. Contact CPC UK for other interface options.

The PAK controller has been installed in a large number of applications world wide using the full range of features available.

Features at a Glance

- Suction pressure control for up to 8 compressors using cyclic control strategy
- Suction pressure control for up to 16 compressors using fixed steps control strategy
- Equalization of run times using cyclic control strategy
- Compressor proofing circuits with discharge temperature sensors for each compressor
- Compressor and condenser current
- Condenser fan control for up to 6 individual stages
- Condenser fan control for Variable Speed Drive controllers
- Condenser TD control using ambient temperature sensor for additional energy savings
- Condenser Set point and Dead Band control as backup if ambient sensor fails
- Facility to control water spray cooling system with specific operating parameters
- Internal high/low suction/discharge alarms with safety shut down set points
- Floating suction algorithms when used with Einstein/E2 controller for added energy savings
- 16 Inputs used for compressor proofing, temperature sensors, pressure transducers, current transformers, analogue liquid level sensors, digital fault signals
- Full setup and visibility using CPC HHT (hand held terminal) or through an Einstein/E2 controller
- Code A and B indicators for easy fault diagnosis
- Alarm relay output
- Electrical connections via plug-in screw type terminals
- Configuration data stored in non volatile memory
- All relay outputs rated at 230 V AC
- CE Approval