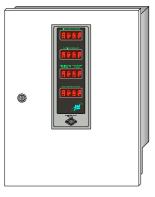
COMPRESSOR CONTROLLER for variable capacity compressors





Type CPST is a unit suitable for the control of groups of variable capacity compressors and associated condenser and the scheduling of defrosts. The unit measures up to **3 suction pressures** and maintains each pressure within adjustable limits by varying the capacity of the compressors as appropriate. **Discharge pressure** is also monitored and is maintained within adjustable limits by increasing or decreasing steps of condensing as appropriate.

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

Type CPST may be used for single or dual temperature compressor groups, with or without controlled satellites. Up to 6 defrosts per day can be scheduled on each of the associated evaporators by setting a schedule of defrost start times, defrost durations and defrost patterns. The commands are routed via the JTL network.

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

Suction and discharge pressures together with simple alarm messages are indicated locally on the display. Type CPST 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.

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

FEATURES

- ♦ Controls up to 10 variable capacity compressors
- ♦ Unequal capacity compressor control
- ♦ Short cycle prevention
- ♦ Balanced running hours
- Controlled start up
- Satellite control
- Multiple suction control
- ♦ Controls up to 7 steps of condensing (12 with bank switching)
- ♦ Variable fan speed control
- Schedules up to 28 defrost systems (via JTL network)
- ♦ 6 defrosts a day/system
- ♦ JTL plant 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

♦ Pressure transducer inputs
 ♦ Temperature sensor inputs
 ↑ Temperature sensor types supported
 ♦ Pressure display drives
 ♦ Voltage-free contact outputs
 2

♦ Optically isolated high voltage inputs 2 (240V max)

♦ Data-logging memory capacity 900 points on 4 channels

TECHNICAL SPECIFICATION

Pressure input 1 Satellite suction pressure
Pressure input 2 Discharge pressure
Pressure input 3 HT suction pressure
Pressure input 4 LT suction pressure

Output 1Not usedOutput 2Watchdog

Communications port RS485 2 wire

Input 2 Low liquid level

ORDERING INFORMATION

CPST-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.

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