

# CABINET CONTROLLER SENSED DEFROST

EC

Type EC is a unit suitable for the control of refrigerated display cabinets where defrost is initiated by external equipment. The unit controls the cabinet temperature by measuring two air temperatures and operating the evaporator liquid solenoid valve.

The unit can be set for terminating or controlling the defrost. Defrost is detected by a probe mounted on the suction line, or by communications, or by contact input (optional extra).

The defrost is terminated when the temperature of the air leaving the evaporator exceeds an adjustable termination value, or when an adjustable time is reached.

The unit detects and indicates high temperatures. The alarm level and its response time are adjustable. High temperature alarms are cancelled during defrost.

Cabinet temperature together with simple alarm and defrost mode messages can be indicated locally by using a JTL display unit.

Type EC provides comprehensive alarm reporting, data-logging and remote access when connected to a JTL Communications Unit.

## FEATURES

- ◆ Temperature measurement inputs
- ◆ Default data set-up switches
- ◆ Temperature display drive
- ◆ Non-volatile set-up memory
- ◆ Relay outputs
- ◆ Watchdog to ensure reliable operation
- ◆ Maintenance unit socket
- ◆ Communications sockets
- ◆ Data-logging memory
- ◆ Comms initiated defrost option

## HARDWARE

- ◆ Temperature probe inputs . . . . . 4
- ◆ Probe types supported . . . . . Tempkey
- ◆ Temperature display drives . . . . . 1
- ◆ Voltage-free contact outputs . . . . . 2
- ◆ Voltage-free contact inputs . . . . . 1 (optional)
- ◆ Data logging memory capacity . . . . . 1000 Points on 3 channels



## TECHNICAL SPECIFICATION

Temperature probe input 1 .....	Air On
Temperature probe input 2 .....	Air Off
Temperature probe input 3 .....	Evaporator
Temperature probe input 4 .....	Suction Line
Output 1 .....	Liquid valve control (Normally closed valve)
Output 2 .....	Defrost control (termination-normally open valve)
Relay output rating .....	1 A resistive (240 V max)
Input 1 (optional extra) .....	Defrost input (volt free)
Unboxed dimensions (L x W x H) .....	208 x 88 x 40mm
Unboxed weight .....	0.36kg
Power supply (standard) .....	240 V 48-62 Hz
(Optional) .....	110 or 220 V

## ORDERING INFORMATION

EC .....	Printed circuit board only
EC-C .....	Input option

### Power Supply Options:

For 110 V append - 110 to order code  
For 220 V append - 220 to order code

For suitable enclosures see appropriate datasheet.

Doc No. 00831 EC\_datasheet.wpd Issue 2 Sept 1993

## JTL SYSTEMS LTD

Sales: 41 Kingfisher Court, Hambridge Road, NEWBURY, Berkshire, RG14 5SJ  
Service: 1 Petre House, Petre Street, SHEFFIELD, S. Yorks, S4 8LJ

Tel: (01635) 263646  
Tel: (0114) 256 0908