

# DISPLAY CABINET CONTROLLER WITH NIGHT BLIND AND LIGHTING CONTROL

LCDC

Type LCDC is a unit suitable for the control of refrigerated display cabinets with 2 evaporators where one evaporator is used to control the cabinet temperature and the other to control the air curtain temperature. Defrost is initiated by external equipment. The unit controls the cabinet air off 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, by communications, or by a voltage free contact closure.

The defrost is terminated when the temperature of the air leaving the air curtain evaporator exceeds an adjustable defrost termination value, or when an adjustable time is reached. Evaporator fans or an auxiliary heater can be controlled during defrost.

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

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

## FEATURES

- ◆ Temperature measurement inputs
- ◆ Temperature display drive
- ◆ Relay outputs
- ◆ Maintenance unit socket
- ◆ Communications sockets
- ◆ Comms initiated defrost option
- ◆ Comms initiated lighting control
- ◆ Comms initiated blind control
- ◆ Defrost input contact
- ◆ Blind and lighting override input contact
- ◆ Default data set-up switches
- ◆ Non-volatile set-up memory
- ◆ Watchdog to ensure reliable operation
- ◆ Battery supported data-logging memory
- ◆ Battery supported real time clock

## HARDWARE

- ◆ Temperature probe inputs . . . . . 7
- ◆ Probe types supported . . . . . Tempkey
- ◆ Temperature display drives . . . . . 1
- ◆ Voltage-free contact outputs . . . . . 4
- ◆ Voltage-free contact inputs . . . . . 2
- ◆ Data logging memory capacity . . . . . 1000 points on 3 channels



## TECHNICAL SPECIFICATION

Temperature probe input 1	.....	Air On
Temperature probe input 2	.....	Air Off 1 (Cabinet)
Temperature probe input 3	.....	Evaporator 1 (Cabinet)
Temperature probe input 4	.....	Suction Line 1 (Cabinet)
Temperature probe input 5	.....	Air off 2 (curtain)
Temperature probe input 6	.....	Suction line 2 (curtain)
Temperature probe input 7	.....	Evaporator 2 (curtain)
Input 1	.....	Lighting and Blind override
Input 2	.....	Defrost initiation
Output 1	.....	Blind closed/Lights off
Output 2	.....	Fan Control or heater Control
Output 3	.....	Liquid valve control (Normally closed valve)
Output 4 (changeover contact)	.....	Defrost control
Relay output rating	.....	1 A resistive (240 V max)
Unboxed dimensions(L x W x H)	.....	208 x 167 x 43 mm
Unboxed weight	.....	0.52 kg
Power supply (Standard)	.....	240 V 48-62 Hz
(Optional)	.....	110 or 220 V

## ORDERING INFORMATION

LCDC ..... Printed Circuit board only

### 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.

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