

DISPLAY CABINET CONTROLLER WITH NIGHT BLIND AND LIGHTING CONTROL

LCNB

Type LCNB 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 2 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 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 **alarms 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 LCNB 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
- ◆ JTL Network communications sockets
- ◆ Network initiated defrost option
- ◆ Network initiated lighting control
- ◆ Network 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 4
- ◆ Probe types supported JTL or Elm
- ◆ 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
Temperature probe input 3	.....	Evaporator
Temperature probe input 4	.....	Suction Line
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	.....	2 A resistive (240 V max)
Communications port	.....	RS485 2 wire
Communications data rate	.....	4800/38400 baud (auto selected)
Communications protocol	.....	JTL zone protocol
Unboxed dimensions (L x W x H)	.....	208 x 167 x 43 mm
Unboxed weight	.....	0.52 kg
Power supply (Standard)	.....	230 V 48-62 Hz
(Optional)	.....	110 V

ORDERING INFORMATION

LCNB 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.



This unit conforms with the relevant EU standards when fitted in accordance with its installation instructions

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