For mechanical expansion valve applications with all common defrost types.

- Stand alone or Networked product
- Registered for Enhanced Capital Allowance (ECA)
- Cabinet lighting/night blind control
- Fan control
- Datalogging at board level
- Multiple temperature control (up to 3 temperature ranges)
- Keyswitched case clean mode
- Set up parameters maintained for restart
- Up to 3 air off sensors

Product Data

Temperature Control
LCPN controls the display cabinet temperature by measuring up to 4 air temperatures and operating a liquid line solenoid valve or condensing unit. Multiple point temperature sensing provides increased accuracy. Up to 3 cabinet operating temperatures can be selected when using the LCPN in conjunction with a LCD9 keyswitched display.

Defrost Control
Defrost can be initiated by JTL network communications, external input or by real time clock within the controller. Suitable for use with all common defrost methods.

In the event of a communications failure the controller initiates a "learned defrost" strategy or a preprogrammed schedule.

Up to 12 defrosts per day can be scheduled.

Alarms
LCPN will monitor and alarm a high and/or low temperatures and if defrosts are not detected. Temperature alarms are inhibited during defrost and defrost recovery. Alarm parameters and delay periods are configurable on site or remotely.

Datalogging
Provides comprehensive alarm reporting and datalogging when connected to a JTL Network.

Display
Cabinet temperature, defrost and alarm messages can be indicated locally on a JTL display with or without keyswitch operation.

Remote Access
If operating within a JTL Network, case parameters and alarm settings can be viewed and adjusted remotely.

Hardware

Temperature sensor inputs 7
Sensor types supported .... 5 kohm NTC thermistor
Temperature display outputs 1
Temperature display types .... LCD8 & LCD9
Voltage-free contact outputs 5
Optically isolated high voltage inputs .... 2 (240 V max)
Data logging memory capacity .... 1000 points on 3 channels

Technical Specification

Temperature sensor input 1 .... Air On
Temperature sensor input 2 .... Air Off 1
Temperature sensor input 3 .... Evaporator
Temperature sensor input 4 .... Suction line
Temperature sensor input 5 .... Energy saving or Defrost termination
Temperature sensor input 6 .... Air off 2
Temperature sensor input 7 .... Air off 3

Output 1 .... Blind closed/Lights off
Output 2 .... Fan Control or Heater Control
Output 3 .... Trim heater
Output 4 (changeover contact) .... Defrost control
Output 5 (changeover contact) .... Liquid valve control

Relay output rating .... 5 A resistive (240 V max)

Input 1 .... Lighting & Blind override
Input 2 .... Defrost initiation

Communications port .... RS485 2 wire
Communications data rate .... 4800/38400 baud (auto detected)
Communications protocol .... JTL Jnet zone protocol

Controller dimensions unboxed (L x W x H) .... 208 x 167 x 43 mm
Controller weight unboxed .... 0.52 kg

Unit dimensions boxed (L x W x H) .... 248 x 176 x 56 mm
Unit weight boxed .... 1.56 kg

Power supply (Standard).. 230 V 48-62 Hz
(Optional) .... 110 V

Ordering Information

LCPN .... Controller unboxed
LCPN-B .... Controller boxed

Power Supply Options:
For 110 V append-110 to order code

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

Qualified for
**Energy
Technology
List**
www.eca.gov.uk

JTL Systems Limited

Head Office	Newbury	**tel:** 44 (0)1635 263646
Technical Support Centre	Newbury	**tel:** 44 (0)871 3157535
Monitoring Centre	Newbury	**tel:** 44 (0)871 3157531