DISPLAY CABINET CONTROLLER

LCPP

FOR MECHANICAL AND ELECTRONIC EXPANSION VALVES WITH POWER MODULE COMPATIBLE OUTPUT

Type LCPP is a unit suitable for the **control** of refrigerated display cabinets with all types of defrost. The unit controls the cabinet temperature by measuring 2 air temperatures and operating a pulsed expansion valve, liquid solenoid valve or condensing unit.

The pulsed expansion valve is controlled using a pressure transducer and suction temperature sensor.

The unit can be set for terminating or **controlling the defrost**. Defrost can be detected by a sensor mounted on the suction line, by JTL Network communications, by a voltage free contact closure or by a real time clock within the unit. Up to 12 defrosts per day can be achieved by setting a schedule of defrost start times and durations in the unit.

The defrost is terminated when the temperature of the air leaving the evaporator or the evaporator temperature exceeds an adjustable **defrost termination** value, or when an adjustable time is reached. Evaporator **fans** or an **auxiliary heaters** 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. A keyswitch on this display can be used to select one of the 2 temperature setpoints and 2 methods of cabinet shutdown.

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

Type LCPP can be used with off cycle, electric, 2, 3 pipe or ring main gas defrost systems.

Cabinet lights and blinds can be operated by the LCPP on receipt of commands from the JTL network.

Trim heaters can be switched by the LCPP when the unit is shutdown under switch or JTL network control.

FEATURES

Dual temperature operation	Ε	Irim heater isolation
Display keyswitch selected shutdown	Ë	Defrost input contact
Suction pressure input	Ë	Suction temperature defrost detection
Temperature measurement inputs	Ë	Up to 12 timed defrosts per day
Temperature display drive	Ë	Display keyswitch input
Power module compatible output	Ë	Blind and lighting override input contact
Maintenance unit socket	Ë	Default data set-up switches
JTL Network communications sockets	Ë	Non-volatile set-up memory
Network initiated defrost option	Ë	Watchdog to ensure reliable operation
Network initiated lighting control	Ë	Battery supported data-logging memory
Network initiated blind control	Ë	Battery supported real time clock
Network initiated shutdown facility		
	Suction pressure input Temperature measurement inputs Temperature display drive Power module compatible output Maintenance unit socket JTL Network communications sockets Network initiated defrost option Network initiated lighting control Network initiated blind control	Display keyswitch selected shutdown Suction pressure input E Temperature measurement inputs E Temperature display drive Power module compatible output E Maintenance unit socket JTL Network communications sockets Network initiated defrost option Network initiated lighting control Network initiated blind control E Network initiated blind control E



HARDWARE

Ε	Temperature sensor inputs 5
Ë	Sensor types supportedJTL
Ë	Temperature display drives
Ë	Voltage-free contact outputs 5

E Optionally isolated high voltage inputs 2 (240 V max)

E Data logging memory capacity1000 points on 3 channels

TECHNICAL SPECIFICATION

Temperature sensor input 5 Energy saving or defrost termination

Input 1 Lighting and Blind override

Input 2 Defrost initiation

Output 1Blind closed/Lights offOutput 2Fan Control or heater Control

Output 3 Defrost control
Output 4 Trim heater

Output 5 Liquid valve control/Pulsed expansion valve

Power module output Active pull up open collector transistor

12 way molex socket

Controller dimensions unboxed (L x W x H) 208 x 167 x 43 mm

Controller weight unboxed 0.5 kg

Controller dimensions boxed (L x W x H) 248 x 176 x 56 mm

ORDERING INFORMATION

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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ITL SYSTEMS LTD

Sales: 41 Kingfisher Court, Hambridge Road, NEWBURY, Berkshire, RG14 5SJ Tel: (01635) 263646
Service: 1 Petre House, Petre Street, SHEFFIELD, S. Yorks, S4 8LJ Tel: (0114) 256 0908