CONTROL SYSTEMS

LAPA Display Cabinet Controller

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 4 temperature ranges)
- Keyswitched case clean mode
- Set up parameters maintained for restart
- Up to 3 air off sensors
- JTL PREDICT defrost enabled
- PT1000 Platinum Resistance Temperature Sensors

Product Data

Temperature Control

LAPA 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 4 cabinet operating temperatures can be selected when using the LAPA in conjunction with an LCD11 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.

This controller supports JTL PREDICT and co-ordinated defrost scheduling.

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.

Trim Heater Control

There are 4 separate strategies for trim heater control.

- Controlled with an adjustment received from the network.
- Controlled to a fixed percentage output which can vary in and out of trading hours.
- Controlled to set percentage output.
- Switched off when controller shutdown using display keyswitch.

Alarms

LAPA will monitor and alarm on high 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.

PRODUCT DATA

Hardware

Temperature sensor inputs	7
Sensor types supported	PT1000 Platinum Resistance
Temperature display outputs	1
Temperature display types	LCD8, LCD9 & LCD11
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 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	230 V 48-62 Hz

Ordering Information

LAPA	Controller unboxed
LAPA-B	Controller boxed

CE 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

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PRODUCT DATA

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