

## CONTROL SYSTEMS LAPI Display Cabinet Controller



# For pulsed expansion valve applications incorporating all common defrost types.



Stand alone or Networked product
Cabinet lighting/night blind control
Fan control
Datalogging at board level
Multiple temperature control (2 temperature ranges)
Keyswitched case clean mode
Set up parameters maintained for restart
JTL PREDICT defrost enabled

#### **Product Data**

**Temperature Control** 

LAPI controls the display cabinet temperature by measuring 2 air temperatures and operating a pulsed expansion valve. The pulsed expansion valve is controlled using a pressure transducer and suction temperature sensor. 2 cabinet operating temperatures can be selected when using the LAPI in conjunction with an LCD9 keyswitched display.

**Defrost Control** 

Defrost can be initiated by JTL network communications 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** 

LAPI 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, alarm parameters and alarm settings can be viewed and adjusted remotely.

### **Hardware**

Temperature sensor inputs Temperature sensor types supported	
Pressure sensor inputs	
Pressure sensor input (-1 to 7 bar)	
Pressure sensor supply voltage  Pressure sensor load impedance	
Temperature display outputs	
Temperature display types	
Solid state relay output	
Optically isolated high voltage inputs  Datalogging memory capacity	
Datalogging memory capacity	1000 points on 5 channels
Technical Specification	
Temperature sensor input 1	∆ir ∩n
Temperature sensor input 2	
Temperature sensor input 3	
Temperature sensor input 4  Temperature sensor input 5	
Pressure sensor input	Suction pressure
Output 1	
Output 2 Output 3	
Output 4 (changeover contact)	Defrost control
Output 5 (solid state relay)	Pulsed valve control
Relay output rating (Outputs 1-4)	
Solid state output rating (Output 5)	2 A resistive (240 V max)
Input 1	Plant fault
Input 2	Lighting and Blind override
Communications port	RS485 2 wire
Communications data rate	
Communications protocol	JIL JNET ZONE PROTOCOI
Unit dimensions unboxed (L x W x H)	
Unit weight unboxed	0.52 kg
Controller dimensions boxed (L x W x H)	
Controller weight boxed	1.56 Kg
Power supply	230 V 48-62 Hz
Ordering Information	
LAPI	
LAPI-B	Controller boxed



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

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