



CONTROL SYSTEMS LACT Coldroom Controller



For mechanical expansion valve applications incorporating all common defrost types.



- Stand alone or networked product
- Registered for Enhanced Capital Allowance (ECA)
- Option to control liquid line valve or condensing unit
- Evaporator fan control
- Quad evaporator termination
- Datalogging at board level
- Door switch input
- Plant alarm input
- Set up parameters maintained for restart

Product Data

Temperature Control

LACT controls the coldroom temperature by measuring upto two air temperatures and operating a single liquid line solenoid valve or condensing unit.

Defrost Control

Defrost can be initiated by JTL Network communications or by real time clock within the controller.

This controller supports JTL coordinated defrost scheduling.

In the event of a communications failure, the controller initiates a "learned defrost" strategy. Upto 12 defrosts per day can be scheduled.

Independent termination is available for 4 evaporators.

Alarms

LACT will monitor and alarm on high temperature and if defrosts are not detected. Temperature alarms are inhibited during defrost and defrost recovery. The LACT monitors coldroom door operation and will alarm if a pre-defined door open delay period is exceeded. 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

Coldroom temperature, defrost and alarm messages can be indicated locally on a JTL display.

Remote Access

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

Hardware

Temperature sensor inputs	7
Temperature sensor types supported	5 kohm NTC thermistor
Temperature display drives	1
Temperature display types	LCD8, LED5
Voltage-free contact outputs	6
Optically isolated high voltage inputs	2 (240 V max)
Datalogging memory capacity	800 points on 4 channels

Technical Specification

Temperature sensor input 1	Air On
Temperature sensor input 2	Air Off
Temperature sensor input 3	Defrost termination 1
Temperature sensor input 4	Defrost termination 2
Temperature sensor input 5	Defrost termination 3
Temperature sensor input 6	Defrost termination 4
Temperature sensor input 7	Room temperature

Output 1	Liquid solenoid valve
Output 2	Fan control
Output 3	Defrost control 1
Output 4 (changeover contact)	Defrost control 2
Output 5 (changeover contact)	Defrost control 3
Output 6 (changeover contact)	Defrost control 4

Relay output rating (outputs 1-6) 5 A resistive (240 V max)

Input 1	Door Switch
Input 2	Man trapped

Communications port	RS485 2 wire
Communications data rate	4800 baud
Communications protocol	JTL Jnet zone protocol

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

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

Power supply (standard) 230 V 48-62 Hz

Ordering Information

LACT	Controller unboxed
LACT-B	Controller boxed



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



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