

COLDROOM CONTROLLER

2 Stage

LC2C

Type LC2C is a unit suitable for the control of coldrooms where defrost is initiated by internal clock or by external equipment. The unit controls the coldroom temperature by measuring two air temperatures and operating the evaporator solenoid valves.

The controller controls 2 solenoid valves with a setpoint for one value and a differential value for the second valve.

The unit can be set for terminating or controlling the defrost. Defrost is detected by a probe mounted on the suction line, an internal clock, a contact input or by JTL network command.

The defrost is terminated when the temperature of the evaporator exceeds an adjustable defrost termination value, or when an adjustable time is reached.

Evaporator fans are run while refrigerating and are stopped during defrost. The pan heater output is turned on during defrost, remains on for an adjustable drain-down period and is off at all other times.

The unit detects and indicates high temperatures. The alarm level and its response time are adjustable.

The fans may be stopped when the coldroom door is open and an alarm is raised if the door remains open beyond an adjustable time limit.

Coldroom temperature together with simple alarm and defrost mode messages can be indicated locally using a JTL display unit. Pushbuttons on the display unit can be used to allow the display to indicate the individual probe temperatures and other useful data.

Type LC2C provides comprehensive alarm reporting, data-logging and remote access when connected to a JTL network controller.

FEATURES

- È Temperature measurement inputs
- È Temperature display drive
- È Relay outputs
- È Maintenance Unit socket
- È Communications socket
- È JTL network initiated defrost option
- È Remote shutdown facility
- È Default data set-up switches
- È Non volatile set-up memory
- È Watchdog to ensure reliable operation
- È Battery supported data-logging memory

HARDWARE

- È Temperature probe inputs 5
- È Probe types supported JTL
- È Temperature display drives 1
- È Temperature display type LED5
- È Voltage-free contact outputs 5
- È Optically isolated high voltage inputs 2 (230 V max)
- È Data-logging memory capacity 950 points on 4 channels



TECHNICAL SPECIFICATION

Temperature probe input 1	Air on
Temperature probe input 2	Air off
Temperature probe input 3	Evaporator
Temperature probe input 4	Suction line
Temperature probe input 5	Termination sensor
Output 1	Pan heater control
Output 2	Fan control
Output 3	Liquid valve control (Normally closed valve)
Output 4 (changeover contact)	Defrost control
Output 5 (changeover contact)	Liquid valve control 2
Relay output rating	2A resistive (230 V max)
Communications port	RS485 2 wire
Communications data rate	4.8/38.4 kilobaud (auto selected)
Communications protocol	JTL zone protocol
Input 1	Door switch
Input 2	Defrost initiation or plant alarm
Unboxed dimensions (LxWxH)	208 x 167 x 43 mm
Unboxed weight	0.52 kg
Power supply	230 V 48-62 Hz

ORDERING INFORMATION

LC2C Printed circuit board only

Power Supply Options:

For suitable enclosures see appropriate datasheet.



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