



**For mechanical expansion valve applications incorporating all common defrost types.**



- Stand alone or networked
- Registered for Enhanced Capital Allowance (ECA)
- Controls liquid line valve or condensing unit
- Evaporator fan control
- Datalogging at board level
- Door switch input
- Plant alarm input
- Self detect gas defrost mode
- Set up parameters maintained for restart

**Product Data**

**Temperature Control**

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

**Defrost Control**

Defrost can be initiated by JTL network communications, external input or by real time clock within the controller. Self detect defrost is available when using gas defrost systems.

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

**Alarms**

LCCU will monitor and alarm on high temperature and if defrosts are not detected. Temperature alarms are inhibited during defrost and defrost recovery. The LCCU 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 .....	5
Sensor types supported .....	5 khom NTC thermistor
Temperature display drives .....	1
Temperature display types .....	LED1 or LED5
Voltage-free contact outputs .....	5
Optically isolated high voltage inputs .....	2 (240 V max)
Datalogging memory capacity .....	800 points on 4 channels
Remote isolation facility .....	

## Technical Specification

Temperature sensor input 1 .....	Air On
Temperature sensor input 2 .....	Air Off
Temperature sensor input 3 .....	Evaporator
Temperature sensor input 4 .....	Suction Line
Temperature sensor input 5 .....	Defrost termination

Output 1 .....	Pan heater or suction valve control
Output 2 .....	Fan control
Output 3 .....	Liquid valve control
Output 4 (changeover contact) .....	Defrost control
Output 5 .....	Unused
Relay output rating .....	5 A resistive (240 V max)

Input 1 .....	Door Switch
Input 2 .....	Plant alarm, defrost input, shutdown (selectable)

Communications port .....	RS485 2 wire
Communications data rate .....	600/4800 baud (auto detectable)
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 (standard) .....	230 V 48-62 Hz
(Optional) .....	110 V

## Ordering Information

LCCU .....	Controller unboxed
LCCU-B .....	Controller boxed

**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.



Doc No. 02762\_LCCU\_datasheet.pmd Issue 2 March 2003

### JTL Systems Limited

<b>Head Office</b>	Newbury	<b>tel:</b> 44 (0)1635 263646
<b>Technical Support Centre</b>	Newbury	<b>tel:</b> 44 (0)871 3157535
<b>Monitoring Centre</b>	Newbury	<b>tel:</b> 44 (0)871 3157531