



For pulsed expansion valve applications

- Stand alone or networked product
- Evaporator fan control
- Plant alarm input
- Man trapped alarm input
- Set up parameters maintained for restart
- JTL PREDICT defrost enabled



Product Data

Temperature Control

UBCI controls the coldroom temperature by measuring upto two air temperatures and operating a pulsed expansion valve. The pulsed expansion valve is controlled using a pressure transducer and suction temperature sensor. The pressure can also be delivered via the JTL network.

Defrost Control

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

This controller supports JTL PREDICT (defrost on demand) and 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.

Alarms

UBCI will monitor and alarm on high temperature 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. Man trapped alarms can be monitored using the UBCI controller.

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
Temperature sensor types supported	PT1000 resistor
Pressure sensor input (programable range)	4-20 mA
Pressure sensor supply voltage	15 to 30 V dc
Pressure sensor load impedance	100 ohms
Temperature display drives	1
Temperature display types	LCD14
Voltage-free contact outputs	5
Voltage free inputs	3

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
Pressure sensor	Suction pressure
Output 1	Pan heater control
Output 2	Fan control
Output 3	Suction valve control
Output 4	Defrost control
Output 5 (solid state relay)	Pulsed expansion valve
Relay output rating (outputs 1-4)	2 A resistive (240 V max)
Input 1	Man Trapped
Input 2	Plant fault
Input 3	Door switch
Communications port	RS485 2 wire
Communications data rate	4800 baud
Communications protocol	JTL Jnet zone protocol
Controller dimensions boxed (L x W x H)	105 x 120 x 79 mm
Controller weight boxed	0.35 kg
Power supply	100-240 V 50-60 Hz

Ordering Information

UBCI Controller



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

Doc No. 05214-UBCI.pmd Issue 1 Nov 2018

JTL Systems Limited

Head Office

Technical Support Centre

Monitoring Centre

Tel: 44 (0)1633 263646

Tel: 44 (0)171 3157535

Tel: 44 (0)171 3157531