



CONTROL SYSTEMS UACT Coldroom Controller



For mechanical expansion valve applications incorporating all common defrost types.

- Stand alone or networked product
- Option to control liquid line valve or condensing unit
- Evaporator fan control
- Quad evaporator termination
- Door switch input
- Man trapped alarm input



Product Data

Temperature Control

UACT 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

UACT will monitor and alarm on high temperature and if defrosts are not detected. Temperature alarms are inhibited during defrost and defrost recovery. The UACT 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	LCD10, LCD14
Voltage-free contact outputs	6
Voltage-free contact inputs	2 (240 V max)

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	Defrost control 2
Output 5	Defrost control 3
Output 6	Defrost control 4
Relay output rating (outputs 1-6)	2 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
Controller dimensions boxed (L x W x H)	105 x 120 x 79 mm
Controller weight boxed	0.52 kg
Power supply	230 V 48-62 Hz

Ordering Information

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

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