# For mechanical expansion valve applications with off cycle or electric defrost types.



- Stand alone or Networked product
- Registered for Enhanced Capital Allowance (ECA)
- Cabinet lighting/night blind control
- Datalogging at board level
- Multiple temperature control (up to 3 temperature ranges)
- Keyswitched case clean mode
- Set up parameters maintained for restart
- 3 air off temperatures
- PT1000 Platinum Resistance Temperature Sensors

## Product Data

**Temperature Control**

SDPA controls the display cabinet temperature by measuring up to 4 air temperatures and operating a liquid line solenoid valve or condensing unit. Multiple point temperature sensing provides increased CPT accuracy. Up to 3 cabinet operating temperatures can be selected when using the SDPA in conjunction with an LCD9 keyswitched display.

**Defrost Control**

Defrost can be initiated by JTL network communications, external input or by realtime clock within the controller. Suitable for off cycle or electric defrost methods.

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

**Alarms**

SDPA will monitor and alarm on high and/or low temperatures 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.

**Datalogging**

Provides comprehensive alarm reporting and datalogging when connected to a JTL Network

**Display**

Cabinet temperature, defrost and alarm messages can be indicated locally on a JTL display with or without keyswitch operation.

**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 ..................................... PT1000 Platinum Resistance
Temperature display drives ................................................................. 1
Temperature display types ........................................................ LCD8 & LCD9
Voltage-free contact outputs ................................................................. 3
Optically isolated high voltage inputs ........................................ 1 (240V max)
Datalogging memory capacity .............................. 1000 points on 3 channels

## Technical Specification

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

Output 1 .................................................................. Blind closed/Lights off
Output 2 .............................................................................. Defrost control
Output 3 ...................................................................................... Liquid valve

Relay output rating ................................................... 5 A resistive (240 V max)

Input 1 ........................................................................................ Defrost input

Communications port ........................................................... RS485 2 wire
Communications data rate ....................... 4800/38400 baud (auto detected)
Communications protocol .......................................... JTL Jnet zone protocol

Controller dimensions boxed (L x W x H) ........................... 245 x 95 x 50 mm
Controller weight boxed ...................................................................... 1.05 kg

Power supply (Standard) ........................................................ 230 V 48-62 Hz

## Ordering Information

SDPA .................................................................................................. Controller

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

Qualified for
**Energy
Technology
List**
www.eca.gov.uk

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