

The world's leading Smart Temperature Control

Imagine being able to create different climate conditions within your own home to suit every member of the family.

Now you can simply by installing the latest technology. Opal Smart Temperature Control the most energy-efficient add-on accessory to any ducted system, or installing with any inverter ducted system saving you up to 60% on running costs.

ROOM 1: 20°C

The new Opal Smart Temperature Control enables you to individually control temperatures in each room.

ROOM 2: 22°C

You can add Opal Smart Temperature Control to your existing ducted system, for one or more rooms.

ROOM 3: 21°C

ROOM 4: 23°C

Opal Smart Temperature Control is easy to use and affordable.



Distributed by:

The Opal Smart Temperature Control enables you to have a different temperature in each room, with individual I FEEL remote controls.

OPAL ZC-207DK

The OPAL ZC-207DK up to 7 zones + proportional electronic By-Pass

The OPAL ZC-207DK operates up to 7 zones and a proportional by-pass damper.

Zoning is accomplished by using automatic proportional dampers in the ducts within each zone. Each zone is controlled by a temperature controller or a remote control and a receiver, which in turn controls a damper. The air-conditioning system responds to the selected inputs and provides comfort conditions to the selected rooms. The dampers to the areas that have reached set point temperature will close, saving energy **up to 60%** with any inverter ducted system. Temperature Controllers installed at each zone will allow programming to each zone in order that individual set temperatures can be achieved.

At times, there will be some areas (or rooms) switched off which will result in significant energy savings!

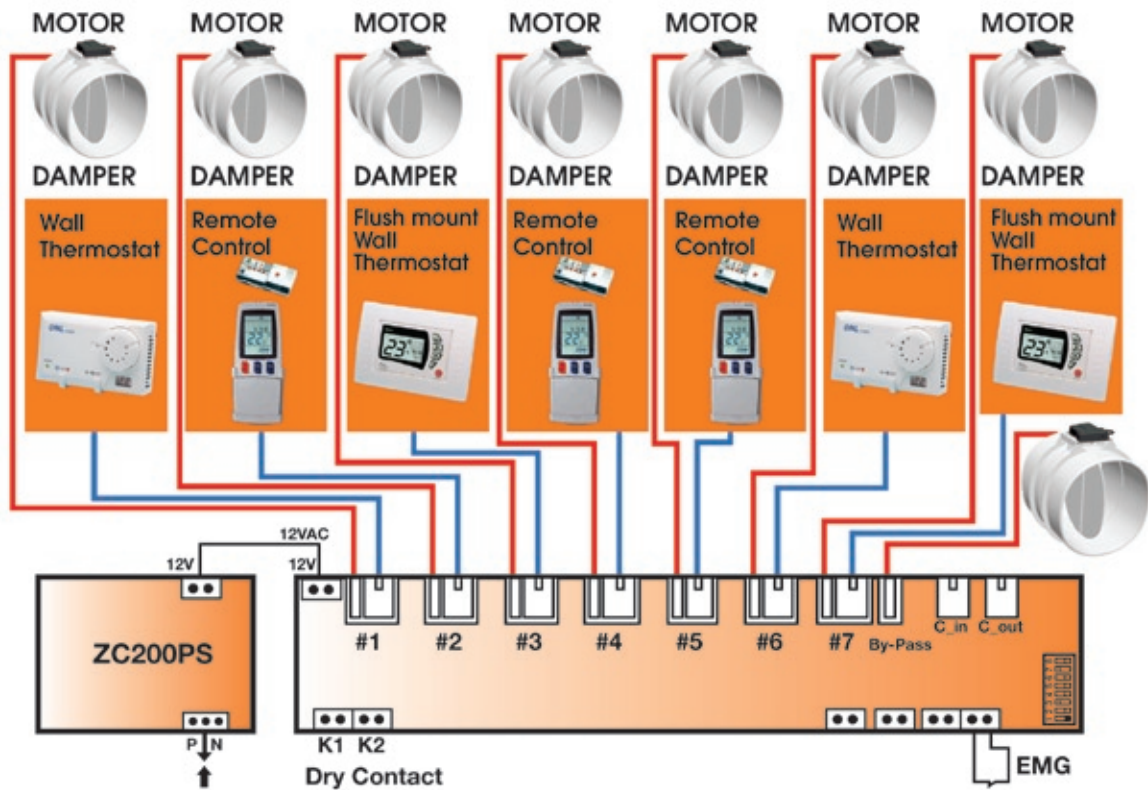
The OPAL ZC-207DK Zone Control System gives you the ability to turn off any zone. This allows your system to direct the cooling or heating where it is needed, and not waste energy.

The OPAL ZC-207DK is a dry contact system controller which is designed to control up to 7 zones used in combination with ABS plastic dampers (4", 6", 10", 12" or 14"). The system includes a by-pass, 2 Relays and a communication port. This communication port enables connecting an additional controller to the main one. This feature increases the systems capability to control up to 14 zones on one system.

The OPAL ZC-207DK has an indication panel that will display the status of the system operation.

- ▶ 7 Channel LED's for each damper status indication.
- ▶ 2 LED's for each relay operation.
- ▶ 1 power LED for main power supply.

The OPAL ZC-207DK controller operates the air-conditioning system by connecting two dry contact relays. It works independently of any air-conditioning system supplied electronics and controller and therefore does not interfere with the air-conditioning systems controller or electronics. The air-conditioning system will receive commands to operate or shut off dampers according to the total system demand for cooling or heating. The controller receives operation commands from each zone and controls each air damper proportionally.



Each System Contains:



C-207DK Controller



C-200 PS Power Supply

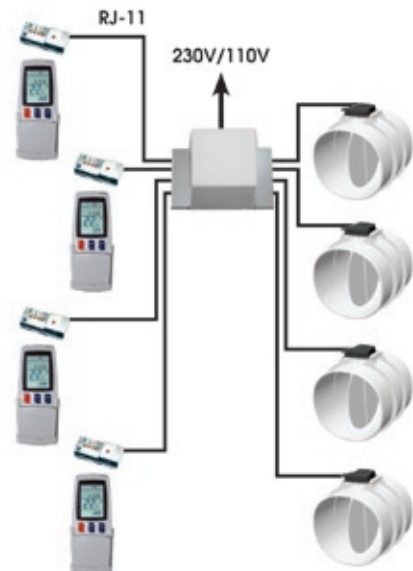


Damper Motor



Black & Red +/- cables

Stand Alone Version



OPAL[®] RC-11

Smart Temperature Control



The Opal Smart Temperature Control is an electronic control system which controls an electrical proportional damper. The system is based on a handheld terminal with I-FEEL sensor & I.D. code that sends the operational commands to a wall mounted receiver. The receiver is based on a strong micro-controller. It displays the operating mode with 5 LED's and carries the operation mode logic and algorithm.



Automatic or Manual Operation

The Opal Smart Temperature Control System operates in Automatic, Manual or Turbo mode.

Automatic Operation - In this mode the damper is controlled proportionally according to the difference between the desired and actual room temperature. The desired temperature is set with the up-down buttons on the remote control. This setting appears on the digital display.

Manual Operation - In this mode the damper is manually controlled and forces 1/3 or 2/3 of the maximum air flow capacity. Setting this operating mode is done by pressing the fan / damper button on the remote control.

Turbo Operation - The dampers operate at maximum capacity, providing maximum air flow to the room.

The Opal Smart Temperature Control System integrated with any Inverter Ducted System will use up to **60% less power** when operating in **only one room**. The Opal ZC207 can control up to 7 rooms + By-Pass. This smart control setup will enable you to switch on/off or restart your complete air conditioning system from **any room!**

System Modes: Closed, Heating, Cooling

The Opal Smart Temperature Control System operates in three (3) modes:

Closed

Heating - Set with operation mode selector button on the remote control

Cooling - Set with operation mode selector button on the remote control

Timer Options: Start, Stop, Sleep

Start mode will set the starting time Stop mode will set the stopping time Sleep mode will set the gradual shut-down time. When in cooling mode, the temperature will increase by 1°C each hour until the damper will shut-down according to the time set. When in heating mode the temperature will decrease by 1°C each hour until the damper will shut-down according to the time set.

Technical Data

The remote control includes: internal temperature sensor, digital LCD display, operating button and Identification Code for each damper. Temperature adjustment range 10°C to 30°C. Accuracy is $\pm 1^\circ\text{C}$.

Alternative System Configurations

The system enables to connect up to four remote controls and dampers to one power supply box C315-1 and thus provides flexibility and comfort in installation according to the requirements on site. The connections possibilities are detailed as follows: One Channel - Connection of one remote to one Power Supply Box C315-1 and one damper. Four Channels (Zones) - Connection of up to Four remote controls to one Power Supply Box C315-4 and up to four dampers.

ALTERNATIVE SYSTEM CONTROL AVAILABLE

OPAL 650 DD - Flush Wall Mount Room thermostat

