



**Intelligent Control**  
Maximum comfort with  
low energy consumption

**Save up to 36% CO<sub>2</sub>**



THERMOSTATS FOR COMFORT HEATING

# Energy Saving Panel Heater Controller

Radio controlled relay designed for Comfort System 4™ central controller.

Relay for controlling panel heaters, featuring night setback, frost protection and floor sensing thermostat mode in a single unit.

- Energy saver for panel heaters
- Wireless control of electric heating panels
- Triple mode: night setback, frost protection and floor sensing thermostat
- Maximum safety thanks to built-in 2-pole 16 A interrupter
- Automatic connection to central controller at power-up

## PRODUCT PROGRAMME

TYPE	PRODUCT
MCS4-10	CS4™ Central controller for up to 15 wirelessly controlled basic thermostats
MSD4-1999	CS4™ Thermostat, for use with MCS4
MSA4-10	CS4™ Panel Heater Controller, for use with MCS4

### Night setback - ensures minimum energy consumption

Can be easily connected to the night setback terminals of the heating panel by means of 230 V live voltage from the internal relay.

The panel heater controller is a member of one of the 4-event schedules of the central controller.

### Frost protection

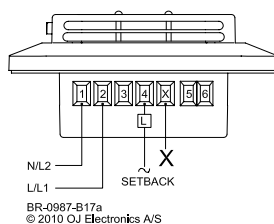
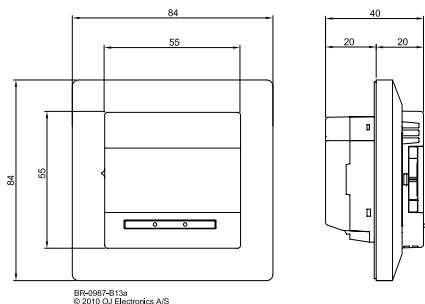
Can be easily connected in series with the heating panel mains supply. In frost protection mode, the controller ensures that the setpoint set on the central controller is maintained by the heating panel.

### Thermostat with external sensor

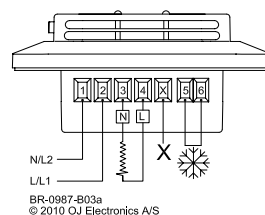
An external floor sensor can easily be connected, enabling temperature control according to the 4-event schedules of the central controller.

### IP21 housing

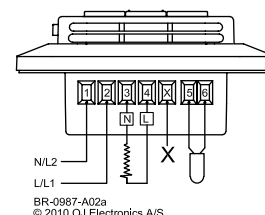
Also suitable for mounting in bathrooms.



Night setback



Frost protection mode



Floor sensing thermostat mode

### Controlled by events sent from central controller

The MSA4 is controlled by a central controller:

#### Events received from the central controller

##### DAYS 1-5

EVENT	TIME	TEMPERATURE	RELAY MODE
1	06:00-08:00	Comfort 21°C	- Relay off
2	08:00-16:00	Setback 15°C	- Relay on
3	16:00-22:30	Comfort 21°C	- Relay off
4	22:30-06:00	Setback 15°C	- Relay on

##### DAYS 6-7

EVENT	TIME	TEMPERATURE	RELAY MODE
1	08:00-23:00	Comfort 21°C	- Relay off
4	23:00-08:00	Setback 15°C	- Relay on

### Easy identification

The MSA4-10 Panel Heater Controller can easily be identified in your house. At the central controller the end-user can easily ask for identification – the MSA4-10 will indicate the unit's address for several seconds by means of flashing LED lights.

### Easy mode selection for installer

The MSA4-10 Panel Heater Controller can easily be wired for frost protection, night setback or floor sensing thermostat mode.

### TECHNICAL DATA

Supply voltage	230 V AC ±10% 50/60 Hz
Standby power	~ 0.9 Watt
Output relay SPST	16 A resistive load or 1 A inductive load
Interrupter	2-pole, 16 A
Frost setting	+5°C (factory set)
Clock function	4-event program
Ambient temperature	0/+40°C during operation
Housing	IP21
Dimensions (H/W/D)	84/84/40 mm (20 mm depth)
EU registered design	001534462-0001 / 2
RF frequency band	868.3 Mhz
RF transmission range	up to 100 meters in open field