

# INSTALLATION AND OPERATING INSTRUCTIONS FOR AUTOMATIC DESTRATIFICATION CONTROLLER ADC4

## Specification

Model no.	Electrical supply	Current Rating	Dimensions ( H x W x D)	Mounting
ADC4	230v 1Ph 50Hz	4A	147mm x 197mm x 79mm	Surface

## Installation

Check that the speed controller supplied is compatible with the fan.

Install in a dry sheltered position. Do not install in close proximity to a heat source.

Remove the front cover of the controller by unscrewing the fascia fixing screws. This provides access to mounting holes and electrical terminals.

All wiring must be carried out by a suitably qualified and competent person and comply with current applicable regulations

## Installation of temperature sensors

The air temperature sensors should be mounted such that they do not come into contact with heat sources such as direct sunlight or heating/cooling pipework. They will then measure the actual air temperature

Sensor cabling: Use 2 core cable which should be run so as to avoid conduit and other cabling where pickup can result.

## Operation

Switch off/on switch to on and select forward (FWD) or reverse (REV). Generally forward is selected but reverse mode may be useful in applications where there is a low ceiling and reverse mode will reduce chance of papers etc been blown about.

The ADC4 has 2 modes of operation

**Manual:** The controller can be used to manually control the speed of the fans using the speed adjustment dial.

**Automatic:** The controller can be used to automatically adjust the speed of the fans and thus move warm air that is rising to ceiling level back down to ground level. The fans will begin to increase in speed (from the pre-set minimum) when the temperature at the high level sensor is greater than that of the low level sensor by the amount in °C as set by the  $\Delta T$  dial.

## Wiring diagram

Connection to fan motor(s)

N: Neutral

LF: Live out to Forward run winding (when forward mode is selected)

LR: Live out to Reverse run winding (when reverse mode is selected)

