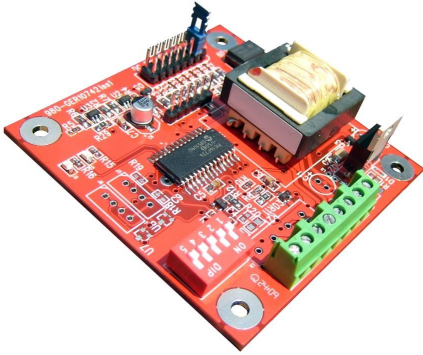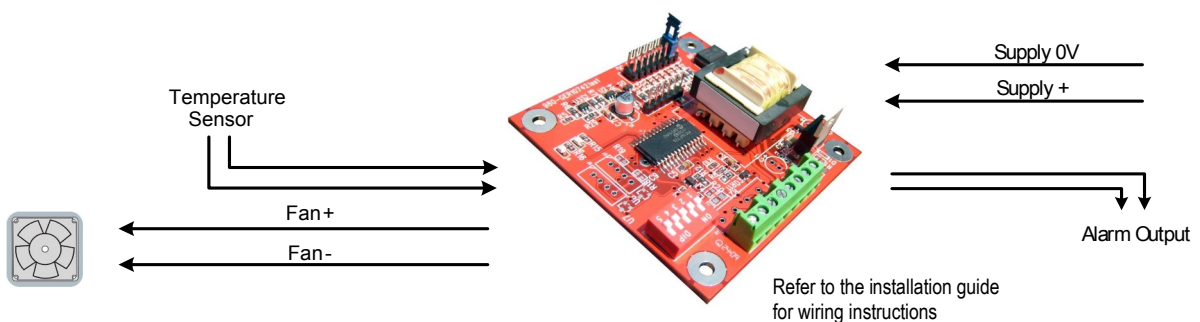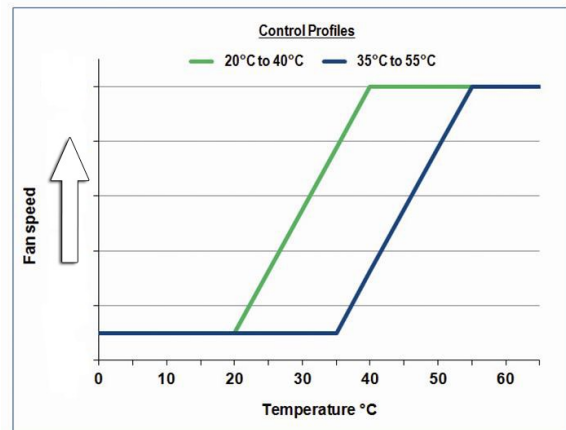# DC Temperature Controller

The DC temperature controller provides closed loop, temperature sensitive speed control for ebm-papst 2-wire and 3-wire DC fans. The controller regulates the electrical power supplied to the fan to maintain optimum performance and reliability.

The controller regulates fan speed between 0% and 100% against the selected temperature profile and also incorporates a combined sensor fail and over-temperature alarm.

Note: Due to the variations in motor electronics, a small number of mainly high speed fans may not work correctly with this controller.

Part Number	Temperature Profile °C	Supply Voltage VDC	Ambient Temperature °C	Max Humidity % RH	Alarm Output	Width mm	Length mm	Height mm
CDC122055UC-000	20-40 / 35-55	12	-20 to +75	95	Open Collector	72.4	71.1	35
CDC122055UR-000	20-40 / 35-55	12	-20 to +75	95	Relay	72.4	71.1	35
CDC242055UC-000	20-40 / 35-55	24	-20 to +75	95	Open Collector	72.4	71.1	35
CDC242055UR-000	20-40 / 35-55	24	-20 to +75	95	Relay	72.4	71.1	35

- DIP- switch selection for:
  - Temperature profile
  - Minimum fan speed
  - Soft start
- Alarm output
  - Over-temperature
  - Sensor failure
- Supplied complete with 2m NTC temperature sensor
- Up to 17W total fan load

Control Profiles

*3-wire fans only

Refer to the installation guide for wiring instructions

ebmpapst