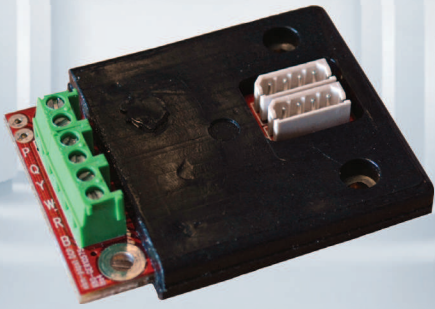# EC Temperature Controller

This simple, low cost, credit card sized controller provides closed loop, temperature sensitive speed control for the full range of ebm-papst EC fans. Its patented design connects to the 10VDC output from the EC fan motor and requires no additional power supply.

The controller regulates fan speed against a pre-programmed temperature profile and also incorporates a combined fan fail, sensor fail and over-temperature alarm. Under alarm conditions the controller fails safe to demand maximum fan speed.

Part Number	Supply Voltage VDC	Temperature Profile °C	Ambient Temperature °C	Max Humidity	Height mm	Width mm	Depth mm
CEC102040MC-000	10	22-40	-20 to +75	90	45	56.5	8
CEC102245UN-000	10	22-45	-20 to +75	90	45	56.5	8
CEC103555MC-000	10	35-55	-20 to +75	90	45	56.5	8

- Temperature sensitive speed control
- Alarm output, open collector interface
   - Fan failure
   - Over-temperature
   - Sensor failure
- Customised temperature profiles available on request
- Rugged over-moulded construction
- Significantly reduces energy consumption
- Supplied with 2M NTC temperature sensor

Temperature Sensor

0-10 V Control

Fan Speed

10 VDC Supply

0V

Fan Supply

Alarm Output