

FAN SPEED CONTROL RE-360P, REM-360P, RF-500P & RFM-500P

This application note provides details of the fan speed control function.

Two fan connectors are incorporated into these power supplies, designated FAN1 and FAN2.

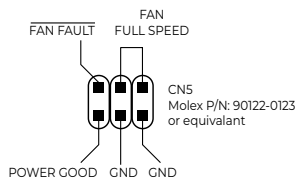
FAN1

This output provides a constant 12VDC at up to 1A for powering an external fan. When a 12V fan is connected to this output it will run continuously at full speed while the power supply is switched on and the remote control input is in the ENABLE state.

This connector is accessible and available for use on all versions - U-Channel, Enclosed with End-Fan and Enclosed with Top-Fan.

FAN2

This output has two operating modes: Speed Control Mode (SCM) and Full Speed Mode (FSM). The mode of operation is configured on jumper header CN5. To enable FSM install a jumper as shown in the figure below.



SCM FUNCTIONS		
T2 temp.	Temperature falling	Temperature rising
<40°C	Fan OFF	Switch Fan OFF
40-50°C	Fan ON	Fan OFF
>50°C	Fan ON	Switch Fan ON

When SCM (factory default) is enabled an internal controller measures the temperature of the main transformer T2 and operates the fan as defined in the table above. When the fan is ON speed is varied according to actual T2 temperature and output load current so as to minimise acoustic noise and extend fan life.

This connector is only available for use in the U-Channel version. On Enclosed versions it is dedicated to the internal fan.

TOTAL FAN CURRENT

The total fan current is 1A. If both fan outputs are being used it is important to make sure that the total current drawn does not exceed this limit at any time.

