

Data Sheet : Temp Man



Description

Temp Man is a standard Temperature Controller to be used with external fan controllers and servo motors. It is very simple and easy to use with a simple and very robust design. Beep feedback from key presses and a clear display makes daily use a simple job.

Temp Man controls the climate from the measured temperature, a SET point for temperature plus standard other parameters. All settings are stored in EEPROM to protect against power failure. IP54 grade and integrated keypads in the front makes the controller usable in harsh environments.

The temperature comes from the HIGHEST of the two temperature sensor inputs. If only one sensor is attached, a short needs to be placed to the secondary temp sensor input.

The temperature is primarily controlled by varying the speed to an attached motorcontroller and FAN. In addition, the AUX output can be configured to control Dampers, Servo motors, extra fans or anything else that can be controlled by a 0-10V signal.

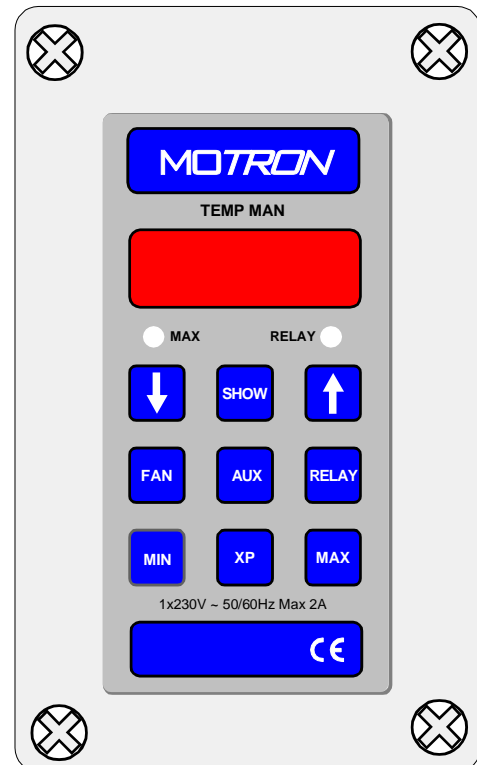
Temp man is a Proportional controller, and the two 0-10V outputs are controlled from the setpoint and temperature. The Xp band is distributed around the Setpoint, ½ on each side. If MIN is set > MAX, the 0-10V output will be reversed, for heating purposes etc. allowing both heating and cooling to be performed.

Temperature is set from **10-40°C**, and the actual temperature is read from the display. Minimum settings, Maximum settings and Xp band can be set individually for both the FAN and AUX outputs.

In addition, the aux and relay output can be offset +/- 9.9°C relative to the setpoint. The MAX relay will activate when the DC output reaches the MAXIMUM setting for the FAN !

Historically Min and Max temperature can be read out on the Min/Max keys. Pressing both keys simultaneously will reset min/max to actual temperatures

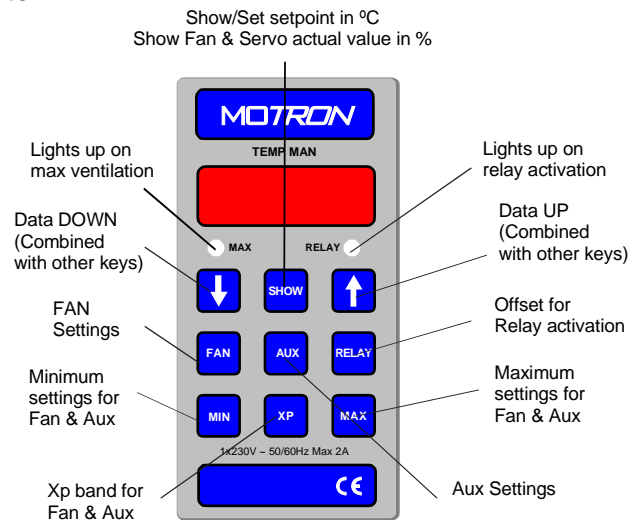
Picture



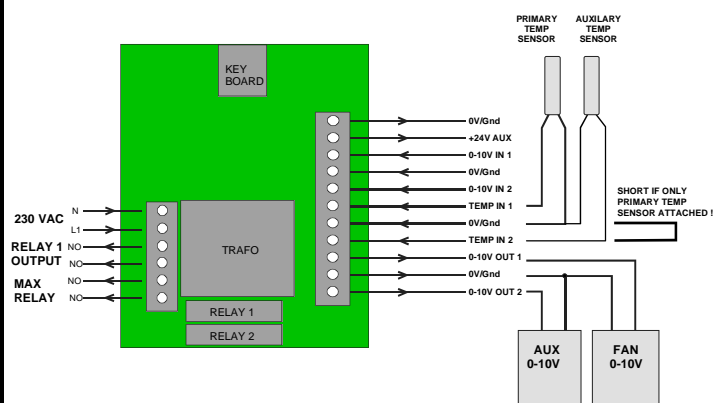
Technical data

- User interface from front.
- 230 +/- 15 VAC / 50Hz supply
- Two Relay outputs 2A / 230VAC
- Two Temperature input -10°C to 50°C KTY PTC Type
- Two Analog outputs 0-10V / 10mA
- Auxillary DC supply out 24VDC / 20mA +/- 30%
- Environmental temperature -5°C to 45°C
- Humidity 5-95% RH, non condensing
- LED indicating Relay and Max ventilation
- Cable glands for connection
- Industrial IP54 grade
- Polycarbonate plastic case
- Polycarbonate front with integrated keys
- Connection through "snap" terminals
- EMC 89/336/EEC LVD 73/23/EEC (EN 50081-1, EN50082-2)
- CE approved.
- Measures 130x80x60 mm

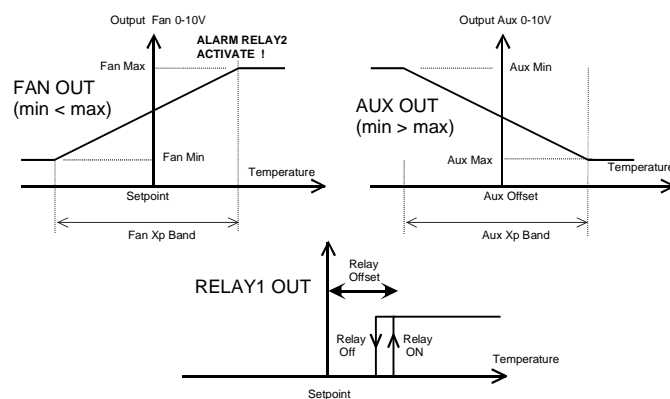
Keys etc




















Connections



Functions



Programming of Temp Man temperature Controller

KEY	DESCRIPTION	DISPLAY	COMMENTS
 	Setting of parameters. One press up/down Automatic if held for more than 1 second	Depends on chosen function	
	Setting of Temperature SETPOINT	10-40°C 0.1°C / press	
 	Fan Minimum 0-10V Output #1	0-100% 1% / press	
 	Aux Minimum 0-10V Output #2	0-100% 1% / press	
 	Fan Maximum 0-10V Output #1	0-100% 1% / press	
 	Aux Maximum 0-10V Output #2	0-100% 1% / press	
 	Fan Xp band 0-10V Output #1	1-10°C 0.1°C / press	
 	Aux Xp band 0-10V Output #2	1-10°C 0.1°C / press	
	Aux Offset 0-10V output #2	-9.9 - +9.9°C 0.1°C / press	
	Relay 1 Offset Relay Output #1	-9.9 - +9.9°C 0.1°C / press	
	Indicates historical Minimum temperature	0-50°C	

MIN			
MAX	Indicates historical Maximum temperature	0-50°C	
MIN MAX	RESETTING of historical temperatures to current temperature.	Indicates current temperature	