TC-ECF13230-M
EC FAN CONTROLLER
MANUAL

DATASHEET-
OPERATIONAL GUIDE.

En-GB
METRIC.
M Series

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RPM
2511
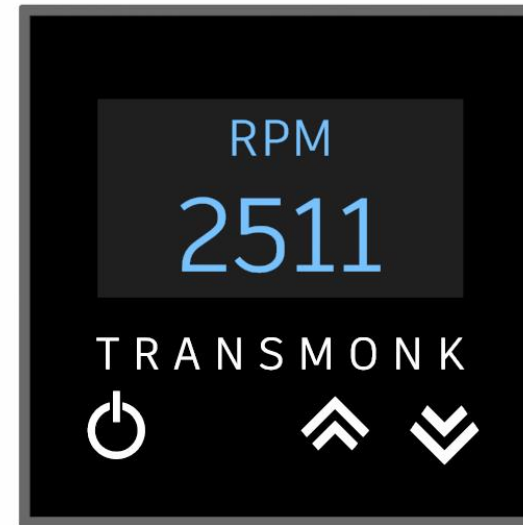
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The controller is designed/programmed to control EC-fan speed, actuators, or any other applications with an analog (0—10 VDC / 0—20 mA / PWM) signal. It is developed to control equipment that needs a stepless control signal. The supply voltage for this controller is 230 V AC. The output voltage is adjusted from 0 to 10 by manual feed buttons. It is also equipped to take feedback from fan, actuators and display it on screen. Any change in feedback can be directly shown with display screen.

Key feature
- 1.3-inch OLED Screen with fan parameter display
- Variable stepless speed can be achieved
- Insert Mounting
- User-friendly 3 button interface

Additional feature on demand
- Remote (RF) based control (Model number selection TC-ECF13230-M/RF)
- Modbus RTU (RS485) communication for integration with BMS (Model number selection TC-ECF13230-M/RS)
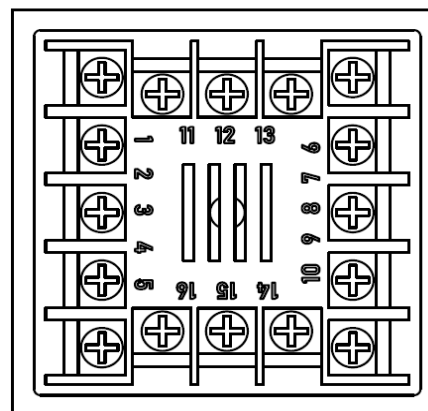
Technical parameters
- Supply input: 230V AC
- Variable output :0-10V
- Indoor use only
- Tech input for EC fan RPM
- Temp range 0-60 degree C

Display parameters
- RPM
- Flow % in case of fan
- Controlling volt

General Technical data

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Wiring Connection

Pin 1- NA	Pin 6- NA
Pin 2-A(Modbus +)	Pin 7- 0 to 10V (variable output to fan/actuator)
Pin 3-B(Modbus -)	Pin 8-tach input from fan
Pin 4-N (230V Neutral, Mains)	Pin 9- NA
Pin 5-L (230V Line, Mains)	Pin 10- Ground (for fan)

Dimensional details

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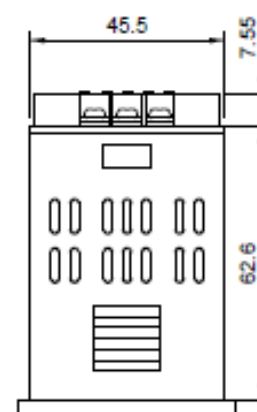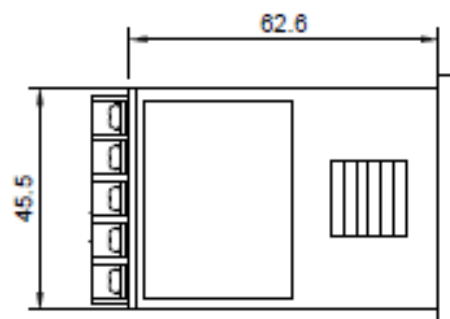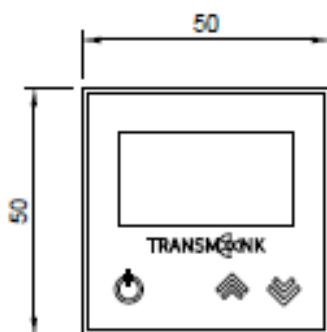
Operating Instructions

Keys

On/off Button ⏻

Increase value (up keys) ⟰

Decrease value (down keys) ⟱

Display
Fan RPM
Flow %
Controlling Volt

Operating Instructions

- Use up ⟰ and down ⟱ keys to increase and decrease fan RPM, a beep sound will occur while changing values.
- Use ⏻ button to switch on/off

Use of remote (For Model: TC-ECF13230-M/RF)

- Use up △ and down ▽ keys to increase and decrease fan RPM
- Use ☐ button to switch on/off

Set Maximum and minimum voltage

Step 1: Press up ⟰ and ⟱ keys together for 2 sec till a beep occurs , continuous beep sound indicate that we are in setting mode.

Step 2: Use power key ⏻ to toggle between Minimum voltage (Display Min Volt) and Maximum voltage (Max Volt)

Step 3: To set minimum voltage, check at display shows "Min Volt" then use up ⟰ and ⟱ down keys to change the value and set as per your requirement.

Step 4: To set maximum voltage, check at display shows "Max Volt" then use up ⟰ and ⟱ down keys to change the value and set as per your requirement

General Technical data

Holding Register (For Model: TC-ECF13230-M/RS)

4001	Module ON/OFF(0/1)	Changeable
4002	RPM	Not
4003	Voltage (0-10)	Changeable
4004	Fan running %	N.A
4005	Min Volt set value	N.A
4006	Max Volt ser Value	N.A

General Technical data