4 CH Ceiling Fan Controller – MESBUS Technical Documentation

MES-CFC-4PRO

Features:

- 4 Channel Ceiling Fan Controller
- Control up to 5 speeds for each channel.
- Manual output operation with push button and LED indication.
- 10 Scene Functionality
- No External Power supply
- Total data saving on bus failure
- Din rail mount assembly
- Programming button
- CE Mark

General Product Specifications				
MESBUS Supply	Voltage (Typical)		29VDC SELV	
	Voltage Range		21-31VDC	
	Maximum Consumption	Voltage	mA	mW
		29VDC (typical)	15	435
	Bus Connection		Typical Bus Connector TP1, 0.8mm^2 section	
External Supply			No	
Speed control for each channel			Step 1 to 5 and OFF	
Protection			Fuse Protection	
Operating Temperature			0 – 70°C	
Storage Temperature			-25°C to 75°C	
Ambient Humidity			5 to 95% RH (No Condensation)	
Storage Humidity			5 to 95% RH (No Condensation)	
Manual Test Facility			2 Push Buttons: 1 – Select Fan No. 2 – Select Fan Speed	
MESBUS Programming Button and LED			Yes	
Usage			Indoor, to be mounted on Distribution boxes or electrical Panelswith DIN Rail	
Power Failure Response			Data Saving	
Response when starting			Data Recovery as parameterized	
Operation indicators			1. 1 LED (Red) for DC Power ON, 2. 4 LEDs (Green) to indicate fan channel selection andspeed indication 3. 1 LED (Red) Programming button	

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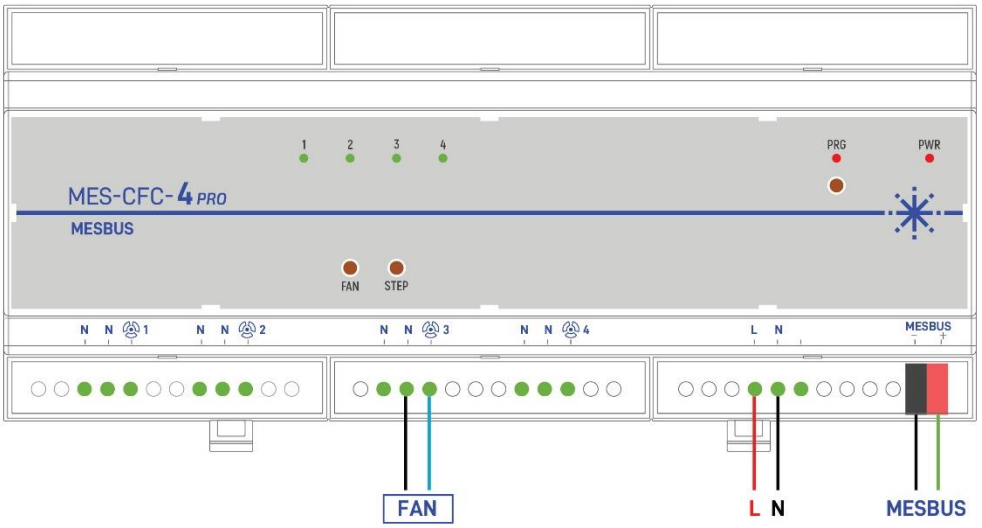
Output Specifications and Connections	
No of Channels	4
Maximum Load per channel (Recommended)	90W
Mains Input Voltage	230VAC (50 Hz) +10% -20%
Connection Type	Terminal Block (Screw)
Recommended cable section	1 to 2.5 mm^2
Cable Type	Stranded or Solid Wire

WIRING DIAGRAM



Manual Push Button:

1. FAN: Select Fan Channel to operate
2. STEP: Select speed of Fan from 0 to 5

LED:

1. Red: Power LED for power on detection
2. Red: Programming LED
3. Green: Fan Channel selection – LED will blink 3 times after channel selection using manual push button then it will show the speed state for that channel
4. Green: Fan speed indication – LEDs will be on for 5 seconds as per table below

Speed	LED 1	LED 2	LED 3	LED 4
0	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	OFF	OFF	ON	OFF
4	OFF	OFF	OFF	ON
5	ON	ON	ON	ON

⚠ SAFETY INSTRUCTIONS

- Installation should only be performed by qualified professionals according to the laws and regulations.
- Do not connect the mains voltage nor any other external voltage to any point of the Mesbus connector; it would represent a risk for the entire system. The facility must have enough insulation between the mains (or auxiliary) voltage and the Mesbus or the wires of other accessories, in case of being installed.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water and do not cover it with clothes, paper, or any other material while in use.

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