

4 Channel Dimmer – MESBUS Technical Documentation

# MES-DIM-4V(R)



### Features:

- 4 Individual outputs / Channels
- Manual output operation with push button and LED status indicator
- 10 Scene functionality
- Din rail mount assembly
- Total data saving on bus failure
- Possibility of connecting different phases in different outputs
- Programming button
- CE Mark

General Product Specifications			
Type of Device		Electric control operation device	
MESBUS Supply	Voltage (typical)		29VDC SELV
	Voltage Range		21-31 VDC
	Maximum Consumption	Voltage	mA
		29VDC (typical)	10
Bus Connection		Typical Bus Connector TP1, 0.8 mm <sup>2</sup> section	
External supply		Yes, 24VDC – 150mA*	
Operating temperature		0 – 70 °C	
Storage Temperature		-25 to + 75°C	
Ambient Humidity		5 to 95% RH (No Condensation)	
Storage Humidity		5 to 95% RH (No Condensation)	
Manual Test facility		4 Push button switches – ON/OFF and Dimming	
Usage		Indoor, to be mounted inside distribution boxes or electrical panels with DIN rail	
IP Class		IP 20	
Power Failure Response		Data saving	
Response when starting		Data recovering and other settings	
Operation Indication		1 Programming LED indicates programming mode (Red). 4 Output status LED indicators reflect current output state (Green). 1 Power Status LED indicates Power status of Module (Green).	

**\*Use External 24V Power Supply. Do Not use the Auxiliary supply of any KNX Power supply.**

**Messung Systems Pvt. Ltd.**

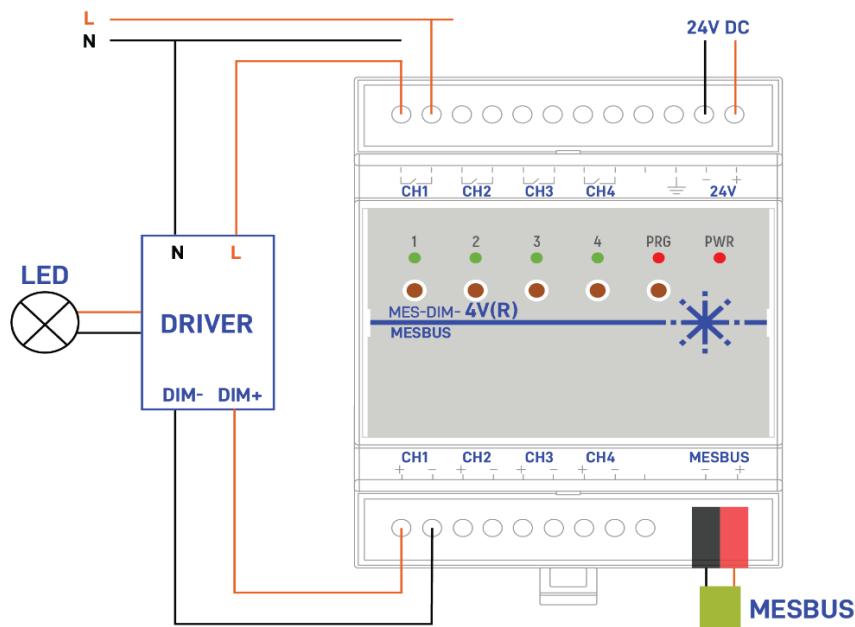
501 Lunkad Sky Vista, Viman Nagar, Pune 411 014, India.

T: +91 20 6649 2800 | e: [info@messung.com](mailto:info@messung.com) | w: [www.messung.com](http://www.messung.com)

Ver.1

Output Specifications		
No. of Outputs/Channel	4 – Relays & 4 0-10V Dimming	
Control of each output	Relay	
Control of each channel	0-10V	
Outputs per common	1 individual output	
Output Relay rating	16A/440VAC	
Contact type	Potential free outputs through relay	
Maximum Inrush current	165A/20ms (Resistive load)	
	800A/200us (inductive load)	
Maximum current	16A	
Maximum Power	Resistive Load 3000W	
Connection Type	Screw Terminal Block	
Recommended cable selection	0.5mm <sup>2</sup> to 4mm <sup>2</sup> (26-10AWG)	
Cable Type	Stranded or Solid wire.	
Expected Life	Mechanical	5 million operations
	Electrical	10,000 cycles
Max number of Drivers per channel	32	

### Wiring Example: 1. LED with Driver



### ⚠ 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.



#### Messung Systems Pvt. Ltd.

501 Lunkad Sky Vista, Viman Nagar, Pune 411 014, India.

T: +91 20 6649 2800 | e: [info@messung.com](mailto:info@messung.com) | w: [www.messung.com](http://www.messung.com)

Ver.1