



MTV-1-PM

230 VAC potentiometer with multifunctional output

The MTV-1-010-PM potentiometer is developed to control equipment that needs a 1–10 VDC, 2–20 mA or 10–100% PWM control signal. The potentiometer needs a supply of 230 VAC, and gives a stepless output signal. The minimum output values can be adjusted within 1–7 VDC / 2–14 mA / 10–70% PWM and the maximum output values – within 3–10 VDC / 6–20 mA / 30–100% PWM. In OFF position, the output is 0 VDC. The potentiometer is suitable for both inset (IP44) and surface mounting (IP54).

Key features

- Selectable output: 1–10 VDC, 2–20 mA or 10–100% PWM
- Infinitely variable control of the output voltage
- Selectable minimum (Vmin) and maximum (Vmax) output by internal trimmers
- A splash-proof enclosure
- Inset or surface mounting

Area of use

- A variety of applications where a 1–10 VDC, 2–20 mA or 10–100 % PWM control signal is required

Technical specifications

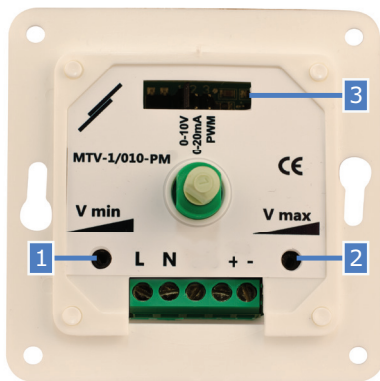
Supply	230 VAC ±10% / 50–60 Hz	
Output	1–10 VDC / 2–20 mA / 10–100% PWM	
Vmin	1–7 VDC / 2–10 mA / 10–70% PWM	
Vmax	3–10 VDC / 6–20 mA / 30–100% PWM	
Load	0–10 VDC mode: ≥ 2 kΩ	
	0–20 mA mode: ≤ 500 Ω	
	PWM mode: ≥ 2kΩ	
Ambient conditions	Operating temperature	0–50 °C
	Relative humidity	< 95% rH (non-condensing)
Protection standard	IP44 / IP54 (according to EN 60529)	



Settings

1 - Minimum speed / output trimmer, Vmin	1–7 VDC / 2–14 mA / 10–70 % PWM
2 - Maximum speed / output trimmer, Vmax	3–10 VDC / 6–20 mA / 30–100 % PWM
3 - Analogue output mode selection jumper	1: 0–10 VDC / 2: 0–20 mA / 3: PWM

Wiring and connections



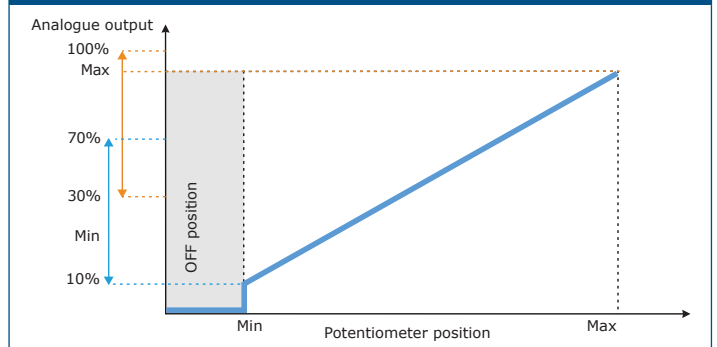
L, N	Power supply (230 VAC ±10% / 50–60 Hz)
+ 0	Output voltage (0–10 VDC / 0–20 mA / PWM)
Connections	Cable cross section: max. 1,5 mm ²

Standards

- Low Voltage Directive 2014/35/EC
- EMC Directive 2014/30/EC
- WEEE 2012/19/EC
- RoHS Directive 2011/65/EC



Operational diagram

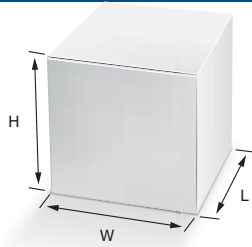




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Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
MTV-1-010-PM	Unit (1 pc.)	85	95	70	0,19 kg	0,21 kg
	Carton (10 pcs.)	485	175	77	1,96kg	2,31 kg
	Box (60 pcs.)	580	370	270	11,76 kg	14,85 kg

Global trade item numbers (GTIN)

Packaging	MTV-1-010-PM
Unit	05401003008942
Carton	05401003301432
Box	05401003502105

Fixing and dimensions

