

MTV-1-CP

230 VAC potentiometer with min. & max., dry contact



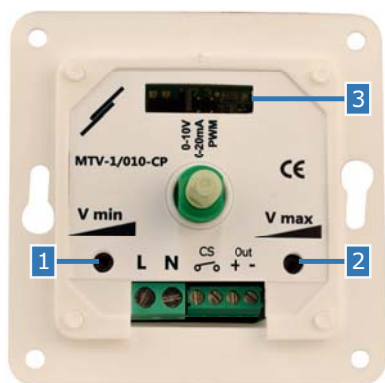
The MTV-1/010-CP potentiometer is developed to control equipment that needs a 0–10 VDC, 0–20 mA or PWM control signal. The potentiometer needs a supply of 230 VAC, and gives a stepless output signal. The minimum values can be adjusted within 1–7 VDC / 2–14 mA / 10–70 % PWM, and the maximum values—within 3–10 VDC / 6–20 mA / 30–100 % PWM). There is an additional switch on/off function (e.g. for controller remote on/off). The potentiometer is suitable for inset mounting (IP44) and for surface mounting (IP54) as well.

Key features

- Selectable output: 0–10 VDC, 0–20 mA or PWM
- Infinitely variable control of the output voltage
- Selectable minimum (Vmin) and maximum (Vmax) output by internal trimmer
- Built-in switch with on/off function (a dry contact at off-position)
- A splash waterproof enclosure
- Inset or surface mounting

Technical specifications

Supply	230 VAC ± 10 % / 50–60 Hz	
Output	0–10 VDC / 0–20 mA / 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 & PWM mode: ≥ 2 kΩ (RL ≥ 2 kΩ) 0–20 mA mode: ≤ 500 Ω 0–100 % PWM ≥ 2kΩ	
On/off switch	CS-dry contact	
Protection standard	IP44 / IP54 (according to EN 60529)	
Ambient conditions	Temperature	0–40 °C
	Rel. humidity	100 % rH (non-condensing)



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 switch, SW	1: 0–10 VDC / 2: 0–20 mA / 3: PWM

Area of use

- A variety of applications where a 0–10 VDC, 0–20 mA or PWM control signal is required

Wiring and connections

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

Standards

- Low Voltage Directive 2006/95/EC
EN 60730 – 1:2011
- EMC Directive 2004/108/EC:
EN 61000 – 6 – 1:2007,
EN 61000 – 6 – 3:2007 A1: 2011
- WEEE Directive 2012/19/EU
- RoHs Directive 2011/65/EU



Combine with

Logic controllers, switches, timers, potentiometers, converters & relay modules

- DTA series
- DTAP series
- STEC series
- MCS series

Electronic fan speed control

- MFC series
- EVS(S) series
- MVS(S) series
- TVSS5 series
- COXS series
- AQXS series
- DPXS series
- RHXS series
- TCXS series
- GRC

Transformer controllers

- STVS series

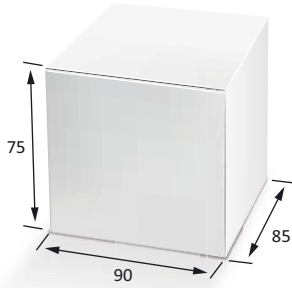
For more detailed information about the product series features visit:
<http://www.sentera.eu/english/download-catalogue.html>



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Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
MTV-1/010-CP	Unit (1 pc.)	95	85	70	0,19 kg	0,21 kg
	Carton (10 pcs.)	492	182	84	1,84 kg	2,23 kg
	Box (120 pcs.)	590	380	505	22,08 kg	28,06 kg

Fixing and dimensions

