

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 (V_{min}) and maximum (V_{max}) 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 \pm 10 % / 50–60 Hz | |
| Output | 0–10 VDC / 0–20 mA / PWM | |
| V_{min} | 1–7 VDC / 2–10 mA / 10–70 % PWM | |
| V_{max} | 3–10 VDC / 6–20 mA / 30–100 % PWM | |
| Load | 0–10 VDC & PWM mode: $\geq 2 \text{ k}\Omega$ ($R_L \geq 2 \text{ k}\Omega$) 0–20 mA mode: $\leq 500 \Omega$ 0–100 % PWM $\geq 2 \text{ k}\Omega$ | |
| 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, V_{min} | 1–7 VDC / 2–14 mA / 10–70 % PWM |
| 2 – Maximum speed / output trimmer, V_{max} | 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 \pm 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

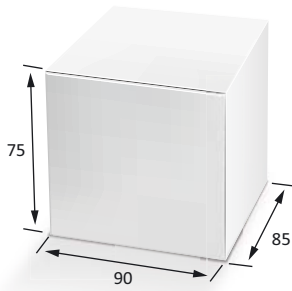
For more detailed information about the product series features visit:
<http://www.sentera.eu/english/download-catalogue.html>



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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

