

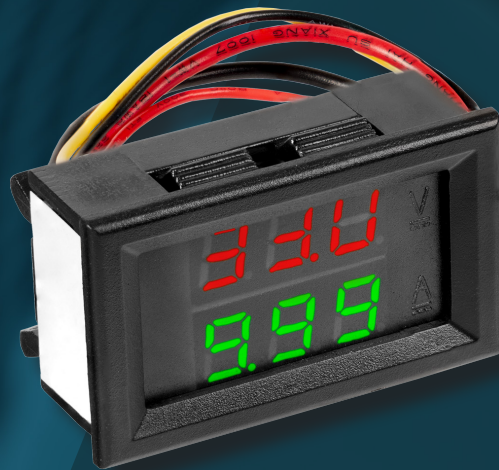
PANEL-MOUNT VOLT/AMMETER

COMPACT DC VOLTAGE AND CURRENT METER UP TO 33 V / 9.99 A

JOY-IT

SPECIAL FEATURES

- ✓ Measures 0–33 V DC and 0–9.99 A DC simultaneously
- ✓ Integrated shunt resistor – no external components required
- ✓ Resolution: 0.01 V / 0.01 A, accuracy $\pm 1\%$ + 2 digits
- ✓ Dual 3-digit LED displays – red (voltage), green (current)
- ✓ Compact panel design with only 48 × 29 × 22 mm
- ✓ Wide supply range (3.5–30 V DC) and fast 500 ms refresh rate



The COM-VAM03 is a compact and easy-to-use digital DC volt/ammeter designed for accurate and reliable measurement of voltage and current in low-voltage systems. Featuring an integrated shunt resistor and a dual LED display, it offers a space-saving and maintenance-free solution for laboratory setups, power supplies, model building, and mobile DC projects.

The device operates from a supply voltage of 3.5 – 30 V DC and measures voltages up to 33 V DC and currents up to 9.99 A DC simultaneously. Both measured values are shown on two bright 3-digit LED segment displays with a digit height of 0.28" per digit. The red display indicates voltage, while the green display shows current, ensuring excellent readability under all lighting conditions.

Thanks to the integrated shunt, no external resistor or wiring is required for current measurement, allowing quick and clean installation. The meter provides a resolution of 0.01 V (0.1 V) / 0.01 A and a measurement accuracy of $\pm 1\%$ + 2 digits, making it ideal for monitoring small DC systems and electronic projects without the need for manual calibration.

With a refresh rate of 500 ms, a compact size of 48 × 29 × 22 mm, and an operating temperature range from –10 °C to +60 °C, the COM-VAM03 combines functionality, reliability, and convenience in one compact unit.

This makes it a cost-effective and practical solution for voltage and current monitoring in low-voltage DC circuits, power supply testing, or educational applications.

TECHNICAL SPECIFICATIONS

Operating voltage	3.5 - 30 V DC
Voltage measuring range	0 - 33 V DC
Voltage resolution	$< 10 \text{ V} = 0.01 \text{ V}$ / $\geq 10 \text{ V} = 0.1 \text{ V}$
Voltage measuring accuracy	$\pm 1 \% + 2 \text{ digits}$
Current measuring range	0 - 9.99 A DC
Current resolution	0.01 A
Current measuring accuracy	$\pm 1 \% + 2 \text{ digits}$
Display size	0.28" per digit
Refresh rate	500 ms
Current measuring accuracy	$\pm 1 \% + 2 \text{ digits}$
Operating temperature	-10 to +60°C
Display mode	3-digit segment display / per measured value
Display colour	Red (voltage), green (current)
Cable length	14 cm
Special features	Integrated shunt resistor

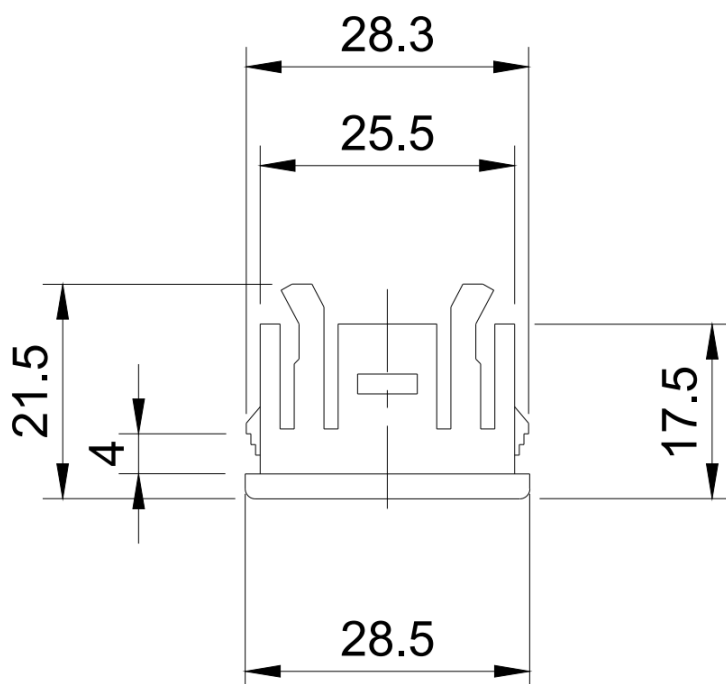
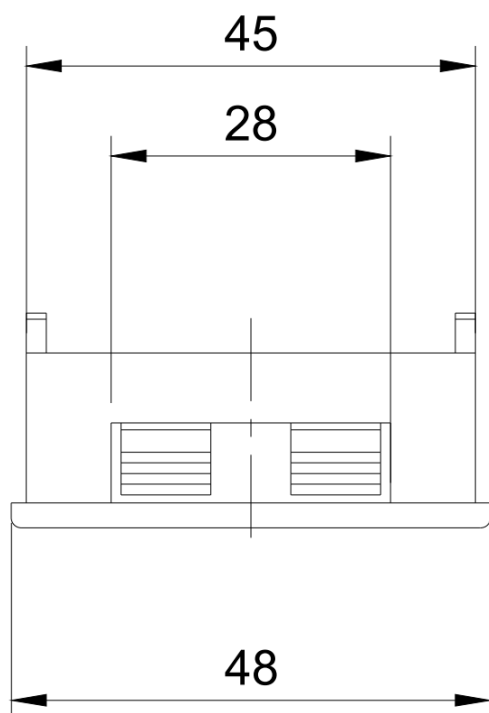
CABLE ASSIGNMENT

Thick red cable	Input current measurement
Thick black cable	Output current measurement
Thin red cable	Input supply voltage
Thin black cable	Ground supply voltage
Yellow cable	Voltage measurement
	Ground current measurement & Ground supply voltage are internally connected

ADDITIONAL INFORMATION

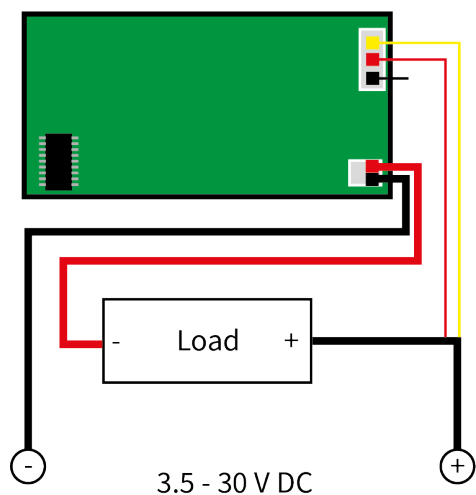
Weight	21 g
Dimensions	48 x 29 x 22 mm
Article no.	COM-VAM03
Items shipped	1x Panel mount volt/ammeter, connection cables
Customs tariff number	90303370
EAN	4250236830957



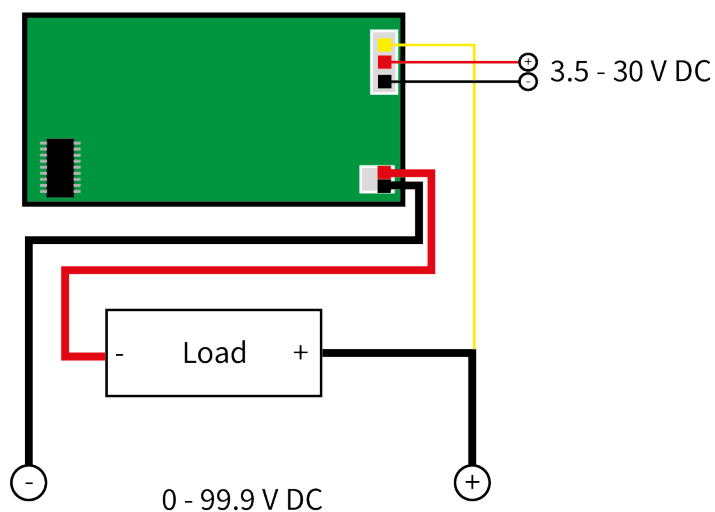


CONNECTION EXAMPLE

Operation via measuring voltage:



Operation with separate power supply:



When operating via the measuring voltage, the thin black cable remains unconnected.