

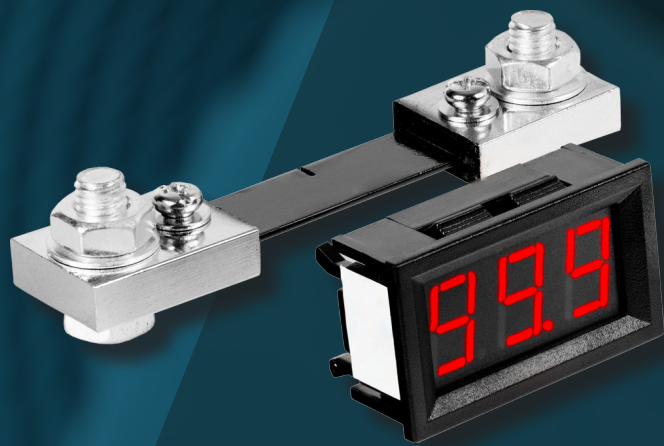
PANEL-MOUNT AMMETER RED

COMPACT DC CURRENT METER UP TO 100 A

JOY-IT

SPECIAL FEATURES

- ✓ 0–100 A DC measuring range
- ✓ Supply voltage: 4 – 30 V DC
- ✓ Integrated calibration potentiometer
- ✓ Bright 0.56" per digit red LED display
- ✓ 4-wire connection design
- ✓ Compact and robust housing



The COM-AM03 is a high-precision digital DC ammeter designed for accurate measurement of large currents up to 100 A DC. It is ideal for monitoring high-power DC systems, battery packs, solar installations, or laboratory test equipment where precise current tracking is essential.

In contrast to compact inline meters, the COM-AM03 uses an external shunt resistor, allowing safe and reliable current measurement without generating excessive heat inside the meter. The included shunt ensures stable and reproducible results while making installation simple and flexible.

Operating from a 4 – 30 V DC supply voltage, the device provides a measurement resolution of 0.1 A. The bright 0.56" per digit red LED display with a 3-digit segment layout ensures clear visibility under all lighting conditions. With a refresh rate of 500 ms and an accuracy of $\pm 1\%$ + 2 digits, the COM-AM03 delivers fast, stable, and reliable readings.

For precise calibration and long-term accuracy, the module features an integrated calibration potentiometer, enabling users to fine-tune the display to the exact characteristics of the external shunt resistor.

Thanks to its robust construction, wide operating temperature range ($-10\text{ }^{\circ}\text{C}$ to $+65\text{ }^{\circ}\text{C}$), and compact form factor ($48 \times 29 \times 22\text{ mm}$), the COM-AM03 is easy to install in front panels, control boxes, or portable measuring systems. It provides a dependable, affordable, and space-saving solution for accurate DC current monitoring in industrial, automotive, and laboratory environments.

TECHNICAL SPECIFICATIONS

Operating voltage	4 - 30 V DC
Current measuring range	0 A - 100 A DC
Current resolution	0.1 A
Current measuring accuracy	$\pm 1 \% + 2$ digits
Display size	0.56" per digit
Refresh rate	500 ms
Operating temperature	-10 to +65°C
Display mode	3-digit segment display
Display colour	Red
Cable length	14 cm
Special feature	Integrated calibration potentiometer, external shunt resistor

CABLE ASSIGNMENT

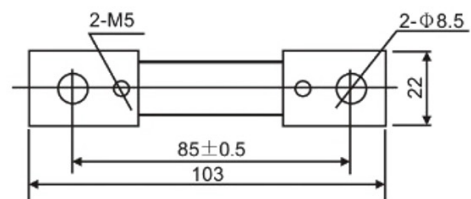
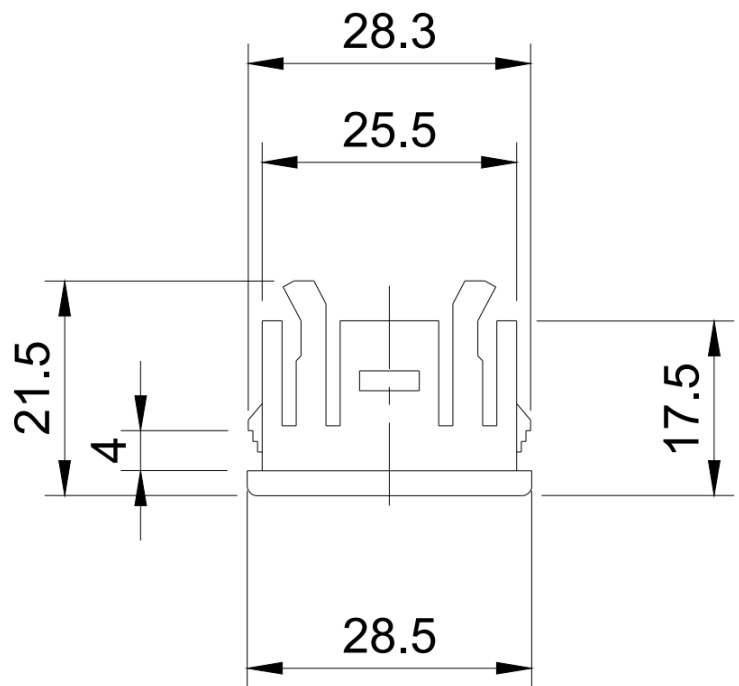
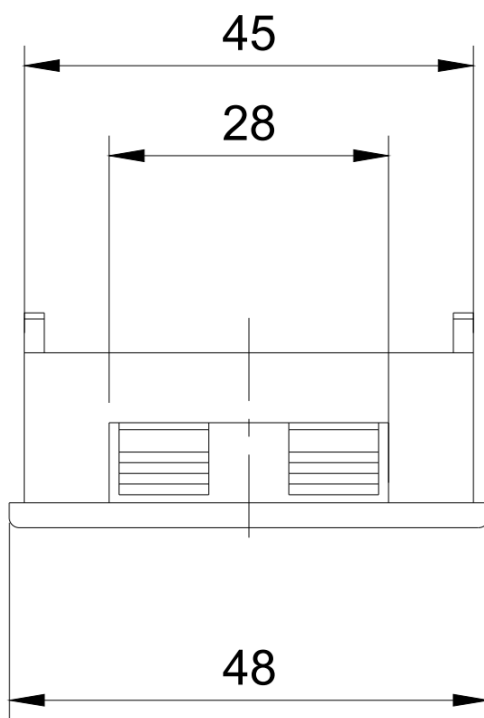
Thick red cable	Input current measurement
Thick black cable	Output current measurement
Thin red cable	Input supply voltage
Thin black cable	Ground supply voltage
Output current measurement & Ground supply voltage are internally connected	

ADDITIONAL INFORMATION

Weight	147 g
Dimensions	48 x 29 x 22 mm 103.5 x 22 x 25 mm (shunt resistor)
Article no.	COM-AM03
Items shipped	1x Panel mount ampere meter, 1x shunt resistor, connection cables
Customs tariff number	90303370
EAN	4250236830889

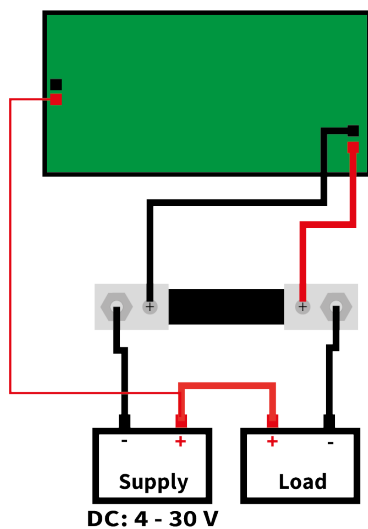


TECHNICAL DRAWING



CONNECTION EXAMPLE

Operation via measuring voltage:



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

Operation with separate power supply:

