

VM 10

Isolated amplifier - Voltage measurement



Applications

The VM10 amplifier is suitable for measuring DC voltages in power distribution systems for public transport networks. The VM10 measuring equipment with its high voltage isolation ensures safety for the equipment and for the personnel.

Main Features

- Wide supply voltage range
- Low non-linearity error
- Very high immunity
- High galvanic isolation up to 15 kV
- Compact solution

Technical data

Supply voltage	24 to 230 V DC \pm 20 % 24 to 230 V AC \pm 10%
Input voltage	\pm 0.75, 1, 1.5, 2, 3* kV unipolar, bipolar *with fixed setting
Output voltage Output current	$U_{S \text{ nom}} \pm 5V$ $I_{S \text{ nom}} \pm 20 \text{ mA}$ or $I_S 4 \dots 20 \text{ mA}$ $R_{L \text{ max}} 600 \text{ ohms}$
Error on gain and non-linearity	Less than $\pm 0.3 \%$ < 100ppm/K full scale
Residual ripple	< 10 mVeff
Galvanic isolation EN50124-1	3-port isolation between input, output and power supply
Operating temperature	-25 ... +85 °C
Galvanic isolation, input against output	10kV AC 50Hz 1min. (with 16 settings) 15kV AC 50Hz 1min. (with fixed setting)
EMC standards	EN 50121-5 (when mounted in a cubicle) EN 61326 class B (standard for isolators)

Mechanical data

Dimension	90 x 67.5 x 118 (H, W, D)
Weight	500 gr
Sealing	IP 40 (Housing)

Type designation

Standard version with setting selection: **SG816209P00001**

Fix setting version: upon request

For more technical information, please refer to the instruction manual.



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