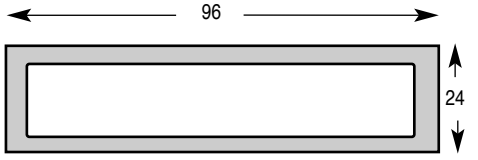
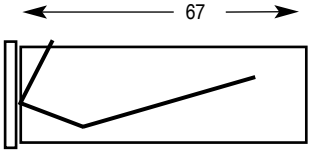
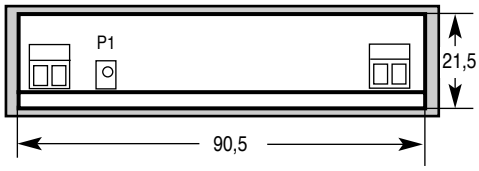
Digital Panel Meter DPM 445

Meas. Display:	4 1/2 Digit with LED 12,5 mm red
Meas. Rate:	2.5 Measurements per sec.
Device Housing:	ABS Plastic black
Overload Meas.:	10 times of meas. Voltage range, max 250V
Overload Meas.:	2 times of meas. Current range
Supply Voltage:	5V, 150mA
Common Mode:	CMRR better 80dB Rejection
Operating Temp.:	-10°C...+50°C
Protection Index:	IP 50 Front IP 00 Rare acc. DIN 40050
Connector Type:	Lift clamps
Front Panel:	H x W = 24 x 96 mm
Front cut-out	H x W = 21,5 x 90,5 mm
Mounting Depth:	D = 67 mm

Mechanical Dimensions:





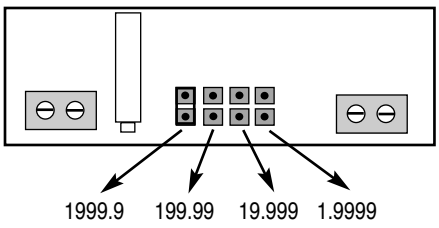


Settings and Connections

The measuring range and the supply voltage are indicated on the device label. The devices are twice factory tested and calibrated. The decimal point is factory set to the range specified on the label. In case of changes proceed according to the sketch. For measurement adaptations the scale factor can be varied through Pot. P1 by about +/- 10% from the end of range. This is valid only for models DPM 435/ .. VDC/ADC.

Setting the Decimal Point

The decimal point is set through a jumper on the top side of the PCB.



Important installation hints

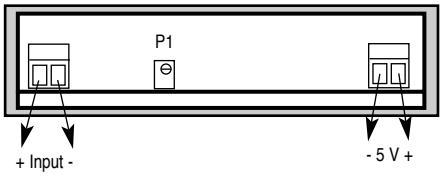
The measuring input and the supply are not galvanic separated. The maximum permitted voltage difference between In-Low and supply minus is 0 V. If the voltage difference exceeds the permitted value the device must be supplied through a separate power supply in order to create the galvanic separation. Operation of multiple devices from one power supply is possible under the condition that all In-Low potentials are con-nectable to supply minus and are connected. In case of current measurements the shunt must be connected into the minus line circuit.

DC-Voltage Type 445-001 ... 445-005

Meas. instrument with full +/- range from -19999 to +19999 digits. Accuracy class 0.1% +/- 1 digit from measuring value. Measuring input and supply connections see sketch.

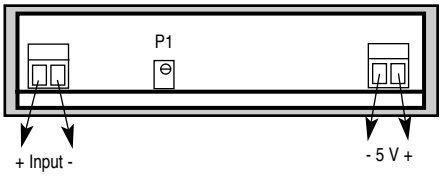
DC-Current Type 445-020 ... 445-025

Meas. instrument with full +/- range from -19999 to +19999 digits. Accuracy class 0.2% +/- 1 digit from measuring value. Internal voltage drop max. 2000 mV. For low current measurements a 2000 mV range shunt (Resistor) is used with the decimal point set accordingly.
Example: Shunt 2A/2000mV. The decimal point will be set to 1.9999. Measuring input and supply connections see sketch.



Special Measuring Ranges Type 445-008 and 445-027

These models provide for standard voltage- and current-signals displays for different values. The display ranges are set at factory site according to customer order and are indicated on the device label. Type 445-008/ 0-10V provides a display range from 0 to customer value. Type 445-027/0-20mA provides a display range from 0 to customer value. Measuring input and supply connec-tions see sketch.



Option: Dimension Display

At the right side of the display unit a dimension display can be assigned to the displayed value. I.e. °C, kg, rpm. The red illuminated dimension wiil be attached to customer order. Size: H x W = 14 x 7 mm.

Safety Precautions

Employing these instruments, regulations for working with high voltage equipment, as well as any Professional Trade Association regulation for working with electrical appliances and installations have to be observed.

CE-Guidelines

Meets the EMV Guideline (89/336/EWG) and the German EMV ruling by applying the Basic Standard EN 50081/ EN 50082. Meets the Low Voltage Guideline (73/23/EWG) by applying Product Standard EN 61010.

Guarantee Regulations

Regulations by law apply for guarantee within 6 month. All equipment is factory tested and calibrated. Excluded from the guarantee are normal wear and tear, defects due to misuse, negligence, chemical exposure, mechanical stress as well as equipment, which has been modified, re-labeled or otherwise altered or if attempts to repair have been made. All guarantee claims are subject to our scrutiny and approval.

Service

We are glad that you decided on an instrument from our product range. If there are what so ever any defects, please send the instrument (postage paid) to your distributor. For technical information contact us via E Mail: **info @ schwille.de**
Technical changes reserved.