Digital panel meter

DV 3½- and 4½-digit

Measuring inputs: voltage, current, shunt, alternating voltage, resistance, temperature

48 x 24 mm digit height 10 mm

96 x 24 mm digit height 14 mm

96 x 48 mm digit height 14 mm

72 x 24 mm digit height 14 mm

72 x 36 mm digit height 14 mm

96 x 48 mm digit height 20 mm

48 x 48 mm digit height 10 mm

96 x 48 mm digit height 14 mm

DV

The DV line has been designed as a range of simple displays that can be set by potentiometers.

Options

- analogue output
- sensor supply
- protection IP54 / IP65
- green LEDs

P4 4-digit

Measuring input: current loop 4...20 mA

48 x 24 mm digit height 10 mm

P4

The units in the P4 range have been designed for the display of a current loop signal. The instruments do not need any power supply, they take their energy from the current loop. Configuration is carried out by allocating the display data via a membrane keypad. Other advantages of the P4 are its integrated MIN/MAX memory and the fact that it is not very deep.

72 x 24 mm digit height 10 mm

72 x 36 mm digit height 14 mm

96 x 24 mm digit height14 mm

96 x 48 mm digit height 14 mm

PVE 4- and 5-digit

Measuring inputs: voltage, current, shunt, alternating voltage, resistance, temperature, strain gauge, frequency

48 x 24 mm digit height 10 mm

96 x 24 mm digit height 14 mm

PVE 4-digit

The PVE4 range is equipped with two switch outputs and can, in conjunction with the many measuring inputs and options, be used for virtually any application. The bright LEDs and the ease of operation via the membrane keypad make day-to-day handling of the unit very easy indeed.

72 x 36 mm digit height 14 mm

48 x 48 mm digit height 10 mm

96 x 48 mm digit height 14 mm

96 x 24 mm digit height 14 mm

PVE 5-digit

This extension offers a display range of -9999...55000 digit.

Measuring input: 0...10V, 0/4...20mA
Resolution: 16 bit

96 x 48 mm digit height 14 mm

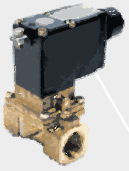
PVE options

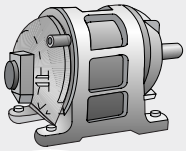
analogue output
sensor supply
protection IP54 /IP65
green LEDs

PU 5-digit

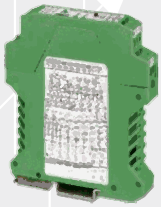
Universal measuring input: voltage, current, shunt, Thermocouple
resistance, platinum thermometer
Measuring input: strain gauge

RS232
RS485





96 x 48 mm digit height 14 mm



0...10V
0/4...20mA

PT100
PT200
PT500
PT1000

Universal measuring input free configurable

Standard signals	DC -1...5/10V, 0/4...20mA
Voltage	DC +/-15/35/75/150/300/500mV
Voltage	DC -500...1250/2500mV
Current	0...2/5mA
Platinum thermometer	PT100/PT200/PT500/PT1000
Thermocouples	L, J, K, B, S, N, E, R, T
Resistance	100/1k/10k Ohm

0...10V
0/4...20mA

TC

L, J, K, B, S,
N, E, R, T

PU 5-digit

This unit has been designed with versatility in mind so as to cover a broad area of application. The resolution of the input signal is 24 bits, making it possible, for example, to register thermocpouples with a resolution that has previously only been customary with laboratory units.

Technical Data

Resolution	24 bit
Measuring rate	up to 50 samples/s
MIN/MAX memory	
30 point linearization	
Analogue output (optional)	
Voltage	0...10V
Current	0/4...20mA
Sensor supply (optional)	
	10V, 24V
Switching points (optional)	
Relays	4 change-over contacs 230V/AC 5A
Interface (optional)	
	RS232, RS485 (CANopen in 2003)
Housing	IP54 (standard) IP65 (optional)

PZ 5-digit

Two inputs with Calculation: voltage, current, interface

96 x 48 mm digit height 14 mm

$$x = (\mathbf{In1 + In2}) * K$$

$$x = (\mathbf{In1 - In2}) * K$$

$$x = (\mathbf{In1 * In2}) * K$$

$$x = (\mathbf{In1 / In2}) * K$$

$$x = (\mathbf{In1 * 100 / In2}) * K$$

PZ 5-digit

The PZ5 ist designed as a 2-channel display device and is used to record and calculate standard signals, 0...10V an 0/4...20mA.
With a resolution of 24 bits, it permits extremely accurate measurement of two analogue values that are related to each other.
To extend the scope of operation, other options are available in addition to the standards.

Measuring input (standard)
Standard signals

Voltage	0...10V
Current	0/4...20mA
Resolution	24 bit
Measuring rate	max. 5 samples/s

Analogue output (optional)

Voltage	0...10V
Current	0/4...20mA

Sensor supply (optional)
10V, 24V

Switching points (optional)

Relays	4 change-over-contacs 230V/AC 5A

Interface (optional)
RS232, RS485
(CANopen in 2003)

Housing	IP54 (standard) IP65 (optional)

PB 4- and 6-digit

Interfaces: RS232/RS485, CANopen, BCD

72 x 24 mm digit height 14 mm

72 x 36 mm digit height 14 mm

PB

The PB series has been designed as a panel-mounting instrument for activation via an interface. Available activation systems are serial interfaces and BCD-multiplexing.
Depending on the size of the housing, the units have a 4- or 6-digit display. Particular attention has been paid to the design of the display, which makes it possibe to depict a °C or °F in the last position.
The protocol of the PB's is configurable to the geatest possible extent, which means that communication to a wide variety of instruments buses is possible by adjusting the parameters on the unit. Furthermore, this unit features various presets for the communication settings, minimizing the time needed for configuration. These presets are based on existing protocols.

Interfaces
RS232/RS485
BCD multiplex
CANopen (2003)
Profibus-DP

96 x 24 mm digit height 14 mm

96 x 48 mm digit height 14 mm

PC 4- and 6-digit

Input: counter

72 x 24 mm digit height 14 mm

PC

The counters that make up the PC line are designed as panel-mounting instruments and are intended for simple applications.
In addition to the input, the counters feature a reset and start/stop or gate time input.
For the accurate recording of mechanically generated impulses, a filter can be activated, and the edge for triggering can also be freely parametrized.

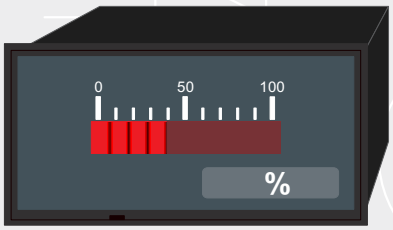
72 x 36 mm digit height 14 mm

96 x 24 mm digit height 14 mm

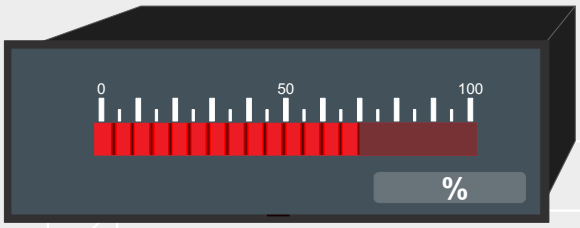
96 x 48 mm digit height 14 mm

Bargraph 10, 20, 30 segments, digital display

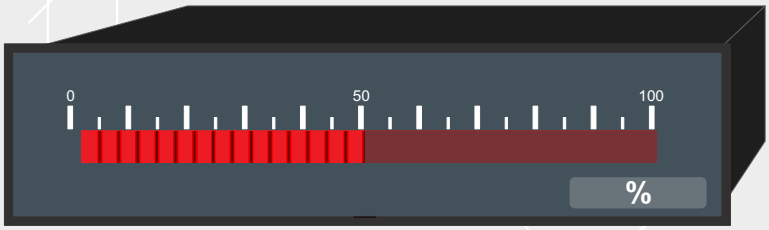
Measuring input: voltage, current



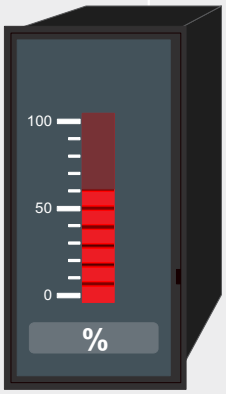
48 x 24 mm



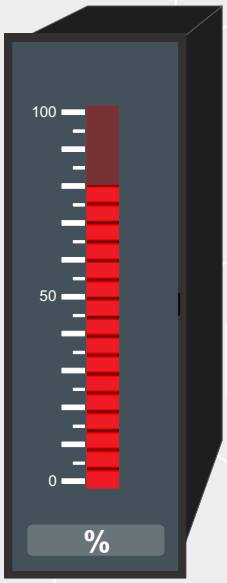
72 x 24 mm



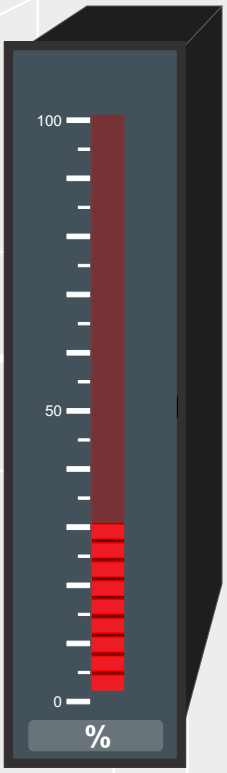
96 x 24 mm



48 x 24 mm



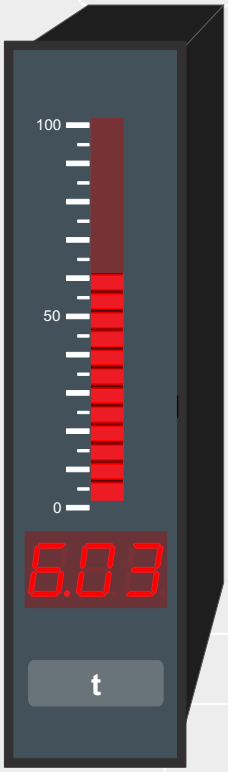
72 x 24 mm



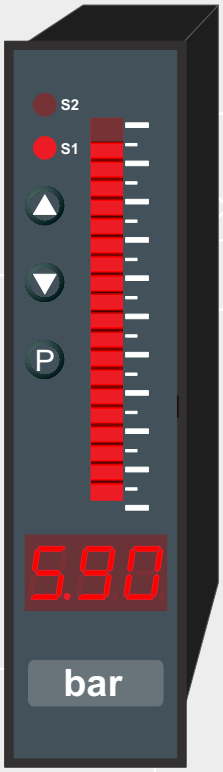
96 x 24 mm

Bargraph

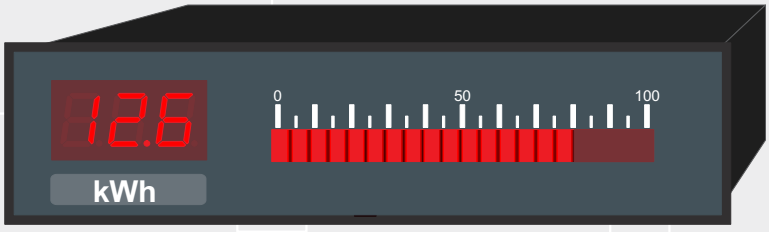
The bargraph are available in different designs and are suitable for the simple display of filling levels etc. The units offer all inputs for voltage (0...10V) and current (0/4...20mA).



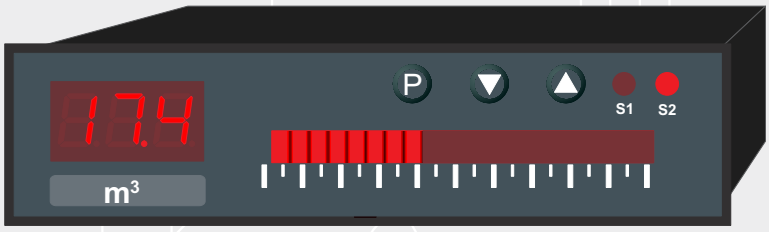
96 x 24 mm



96 x 24 mm



96 x 24 mm

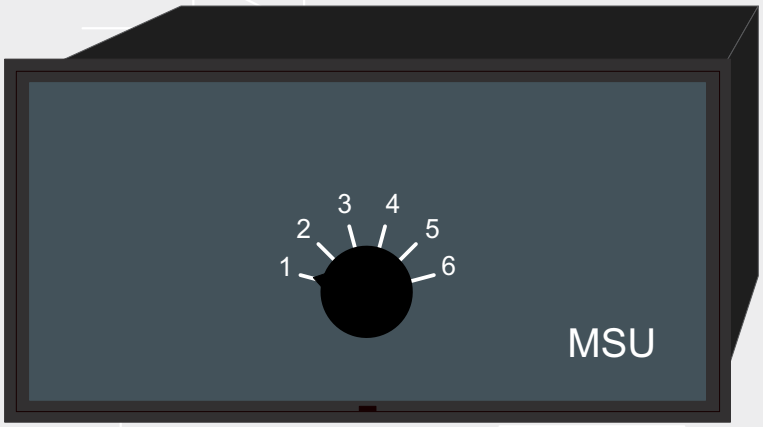


96 x 24 mm

Bargraph with digital display

The units with membrane keypads are designed with prozessor technology and have two switching points, MIN/MAX-memory and an 8-point linearization.

Multipoint selector

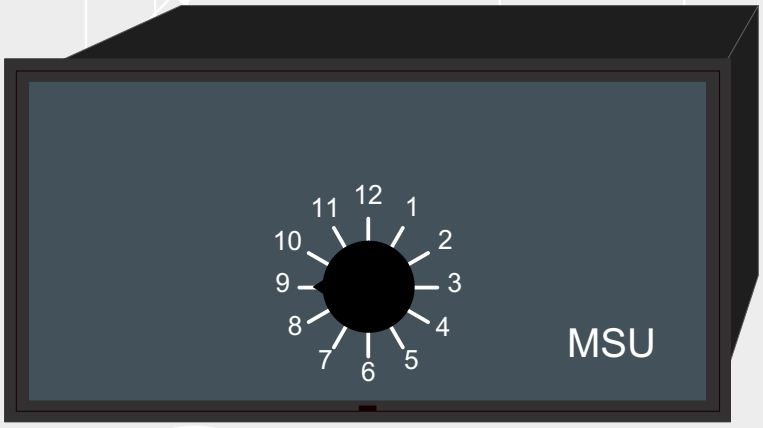


96 x 48 mm

6 measurring points 4-wire

MSU6 multipoint selector

The MSU6 can switch 6 sensors in a 4-wire system to a diplay unit.



96 x 48 mm

12 measuring points 2-wire

MSU12 multipoint selsctor

The MSU 12 can switch 12 sensors in a 2-wire system to a display unit.

Dimmer

96 x 48 mm

Dimmer

DIM dimmer

The unit can control the brightness of up to 12 display units * simultaneously.

*Display units with suitable inputs.

Setpoint adjuster

96 x 48 mm

digit height 14 mm

PS4 setpoint adjuster

Outputs: 0...10V; 0/4...20mA
Display: +/-19999 digit

Overview large-size display

Our large-size displays have a rugged housing made of aluminium profile with IP65 protection and a black powder coating (RAL 9005). The units are available either for building into or mouting on to the relevant devices, and are also available as a twin display.

7-segment displays

These displays are available in digit heights of 57, 100, 150, 200, 250 und 300 mm with maximum of eight digits. Input options for activating the display are 0...10V, 0/4...20mA, RS232, RS422, RS485 and CANopen.

Dot matrix LED

Large-size displays in this design are available with digit heights of 30, 50 and 100 mm; they can be combined as a single or multi-line display of different length in one display.