

PVE – 4-digit digital panel meter in 72x36 mm (BxH)

Alternating voltage / alternating current signals 100V, 300V, 5A, 1A

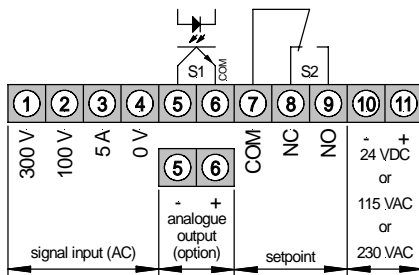
- potential-isolated
- 2 free scalable setpoints/hysteresis
- analog output galvanic insulated
- min/max memory



ORDER NUMBER
(without options)

EUR

• Alternating voltage, alternating current



Power supply 230 VAC

Standard **PVE 4.004.6522C**

True effective value RMS **PVE 4.104.6522C**

Power supply 24 VDC
(galv. insulated)

Standard **PVE 4.004.6722C**

True effective value RMS **PVE 4.104.6722C**

• Order key options

P	V	E	4.	0	0	4.	6	5	2	2	C
P	V	E	4.	1	0	4.	6	5	2	2	C
P	V	E	4.	0	0	4.	6	7	2	2	C
P	V	E	4.	1	0	4.	6	7	2	2	C

EUR

S108 Measuring input 1A, 5A not applicable

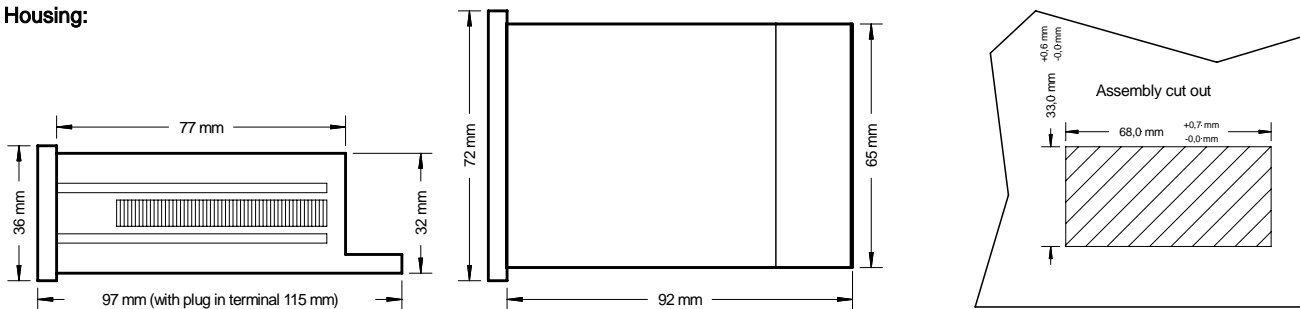
- 1 Protection class IP65 at the front
- 4 Protection class IP54 at the front
- 7 Protection class IP65 at the front and plug-in terminal
- 8 plug-in terminal
- 9 Protection class IP54 at the front and plug-in terminal
- 4 Voltage supply 115 VAC
- Switching point S1 is not applicable with analog output!
- 1 Analog output 0-10 VDC at 230 VAC / 115 VAC
Analog output 0-10 VDC at 24 VDC
- 2 Analog output 0-20 mA at 230 VAC / 115 VAC
Analog output 0-20 mA at 24 VDC
- 3 Analog output 4-20 mA at 230 VAC / 115 VAC
Analog output 4-20 mA at 24 VDC

Please state physical unit on demand, e.g. A.

• Technical data

Dimensions	Housing	W 72 x H 36 x XD 97 mm, including screw terminal
	Assembly cut out	68.0 ^{+0.7} x 33.0 ^{+0.6} mm
	Fastening	latchable quick plastic clamp proper to fix in wall thickness up to 50 mm
	Housing material	PC/ABS-plastic blend, colour black, UL94V-0
	Protective system	at the front IP40 connection IP00
	Weight	approx. 0.190 kg
	Connection	at the rear via terminals up to 2.5 mm ²
Input	Measuring range	100 V, 300 V, 5 A – optional 0-2 V, 20 V, 1 A All ranges selectable via connection terminal.
	Input resistance	Ri with 100 V = ~1 MΩ 2 V = 20 kΩ 300 V = ~4 MΩ 20 V = 200 kΩ 1 A = ~276 MΩ 5 A = ~56 mΩ
Output	Relay outputs (Switching cycle)	change-over contact 240 VAC/0.25 A – 24 VDC/1 A, at ohm resistive burden 2 * 10 ⁵ at max. contact rate 10 * 10 ⁶ mechanically
	Open Collector	Supply by customers (U _B = 5-35 V / I _{max} = 100 mA with U _{CE sat})
	Analog output	0-10 VDC (12 Bit) 0-20 mA (12 Bit) burden max. 500 Ω 4-20 mA (12 Bit) burden max. 500 Ω The analog output is galvanic insulated from the measuring input!
Accuracy	Resolution	-999...+9999 Digit
	Temp.coefficient	I ~ 200 ppm/K / U ~ 100 ppm/K
	Measuring principle	voltage/frequency converter
	Frequency range	nominal precision 40 HZ up to 100 Hz
PVE4.0x4.6xx2B	Measuring error	Voltage range: ±1.0% of final value, ±1 Digit 0-1 A range: ±1.0% of final value, ±1 Digit 1-5 A range: ±1.0% of final value, ±1 Digit
	Measuring principle (input)	rms-value
PVE4.1x4.6xx2B	Messfehler	Voltage range: ±0.7% of final value, ±1 Digit, crest factor 3 0-2 A range: ±0.7% of final value, ±1 Digit, crest factor 3 1-6 A range: ±0.7% of final value, ±1 Digit, crest factor 3
	Measuring principle (input)	rms-value
Power unit	Supply voltage	230/115 VAC +/-10% (50-60 Hz), 24 VDC +/-10%, galvanic insulated
	Power consumption	approx. 3 VA
Indication	Display	LED with 7 segments, 14 mm high, red 4-digit = indication 9999
	Overflow	indication of 4 horizontal bars
	Indication time	from 0.1 up to 10 seconds adjustable
Ambient conditions	Working temperature	0°C up to +60°C
	Storing temperature	-20°C up to +80°C

Housing:



CE-sign:

For unlimited use of the device according to directive 89/336/EWG for the „electromagnetic compatibility“, analog input lines need to be laid screened. The screen needs to be applied onesided!

• Ordering code

	P	V	E	4.	0	0	4.	6	5	2	2	C	
Basic model													Version
													<input type="checkbox"/> C Version C
Voltage metering	<input type="checkbox"/> V												Switching points (standard)
													<input type="checkbox"/> 1 1 relay output
Internal index	<input type="checkbox"/> E												<input type="checkbox"/> 2 1 relay output and 1 open collector output
Number of digits 4 digits	<input type="checkbox"/> 4												Mechanical options
													<input type="checkbox"/> 1 Foil keyboard, protection IP65
Sensor supply no sensor supply	<input type="checkbox"/> 0												<input type="checkbox"/> 2 Foil keyboard, protection IP40
													<input type="checkbox"/> 4 Foil keyboard, protection IP54
Alternating voltage, current Standard	<input type="checkbox"/> 0												<input type="checkbox"/> 7 Plug-in terminal, foil keyboard, IP65
True effective RMS	<input type="checkbox"/> 1												<input type="checkbox"/> 8 Plug-in terminal, foil keyboard, IP40
													<input type="checkbox"/> 9 Plug-in terminal, foil keyboard, IP54
Outputs no outputs	<input type="checkbox"/> 0												Power supply
0-10 V	<input type="checkbox"/> 1												<input type="checkbox"/> 4 115 VAC
0-20 mA	<input type="checkbox"/> 2												<input type="checkbox"/> 5 230 VAC
4-20 mA	<input type="checkbox"/> 3												<input type="checkbox"/> 7 24 VDC (galvanic insulated)
													Size of housing
													<input type="checkbox"/> 6 72x36 mm (BxD)
													Measuring input
													<input type="checkbox"/> 4 Alternating voltage, alternating current