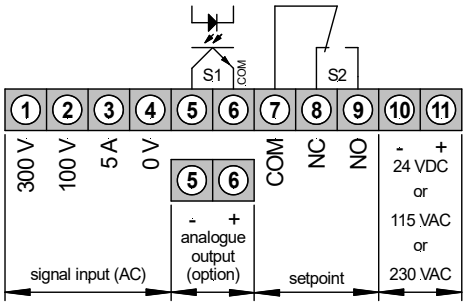
IPVE – 4-digit digital panel meter in 72x36 mm (BxH)
Alternating voltage / alternating current signals 100V, 300V, 5A, 1A

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

ORDER NUMBER (without options) | **EUR**

• Alternating voltage, alternating current



		ORDER NUMBER (without options)	EUR
Power supply 230 VAC	Standard	**IPVE 4.004.6522C**	**296.50**
	True effective value RMS	**IPVE 4.104.6522C**	**328.30**
Power supply 24 VDC (galv. isolated)	Standard	**IPVE 4.004.6722C**	**317.70**
	True effective value RMS	**IPVE 4.104.6722C**	**349.50**

• Order key options

IP	V	E	4.	0	0	4.	6	5	2	2	C
IP	V	E	4.	1	0	4.	6	5	2	2	C
IP	V	E	4.	0	0	4.	6	7	2	2	C
IP	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	12.50
4	Protection class IP54 at the front	7.50
7	Protection class IP65 at the front and plug-in terminal	23.70
8	plug-in terminal	11.20
9	Protection class IP54 at the front and plug-in terminal	18.70
4	Voltage supply 115 VAC	10.90
	Switching point S1 is not applicable with analog output!	
1	Analog output 0-10 VDC at 230 VAC / 115 VAC	74.80
	Analog output 0-10 VDC at 24 VDC	118.30
2	Analog output 0-20 mA at 230 VAC / 115 VAC	80.90
	Analog output 0-20 mA at 24 VDC	124.50
3	Analog output 4-20 mA at 230 VAC / 115 VAC	80.90
	Analog output 4-20 mA at 24 VDC	124.5

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

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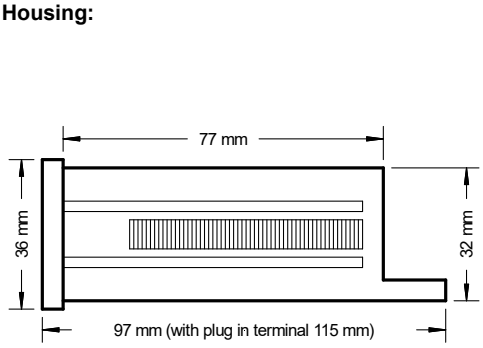
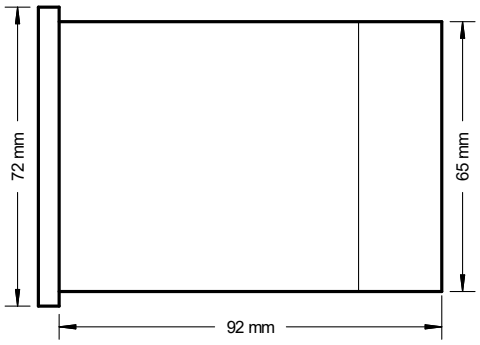
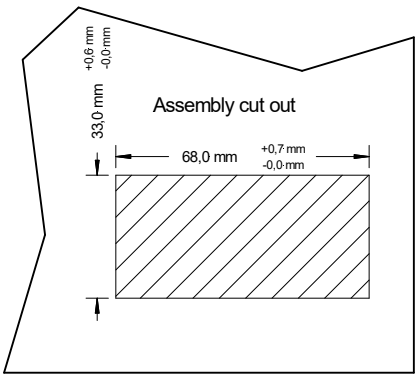
• Technical data

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 300 V = ~4 MΩ 1 A = ~276 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 isolated 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 to 100 Hz Standard / 40 Hz to 1000 Hz True RMS-value
IPVE4.0x4.6xx2b	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)	via precision rectifier = rms-value only with sinusoidal signal
IPVE4.1x4.6xx2B	Measuring error	Voltage range: ±0.7% of final value, ±1 digit, crest factor 3 0-1 A range: ±0.7% of final value, ±1 digit, crest factor 3 1-5 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 isolated
	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 2014/30/EU for the „electromagnetic compatibility“, analog input lines need to be laid screened. The screen needs to be applied one-sided!

• Ordering code

	IP	V	E	4.	0	0	4.	6	5	2	2	C	

Basic model

Voltage metering V

Internal index E

Number of digits
4 digits 4

Sensor supply
no sensor supply 0

Alternating voltage, current
Standard 0
True effective RMS 1

Outputs
no outputs 0
0-10 V 1
0-20 mA 2
4-20 mA 3

Version
C Version C

Switching points (standard)
1 1 relay output
2 1 relay output and 1 open collector output

Mechanical options
1 Foil keyboard, protection IP65
2 Foil keyboard, protection IP40
4 Foil keyboard, protection IP54
7 Plug-in terminal, foil keyboard, IP65
8 Plug-in terminal, foil keyboard, IP40
9 Plug-in terminal, foil keyboard, IP54

Power supply
4 115 VAC
5 230 VAC
7 24 VDC (galvanic isolated)

Size of housing
6 72x36 mm (BxD)

Measuring input
4 Alternating voltage, alternating current

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