

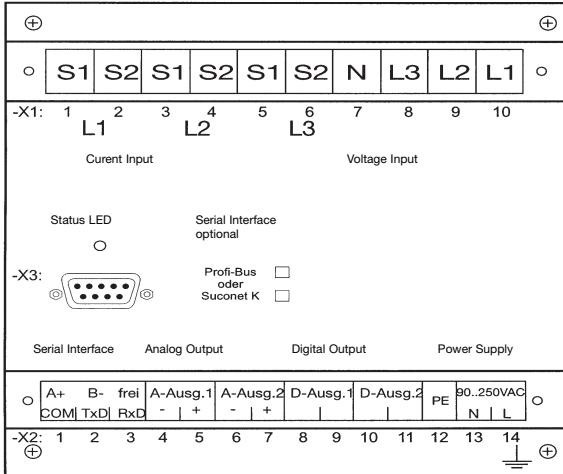
UBN 400 Universal Power Meter



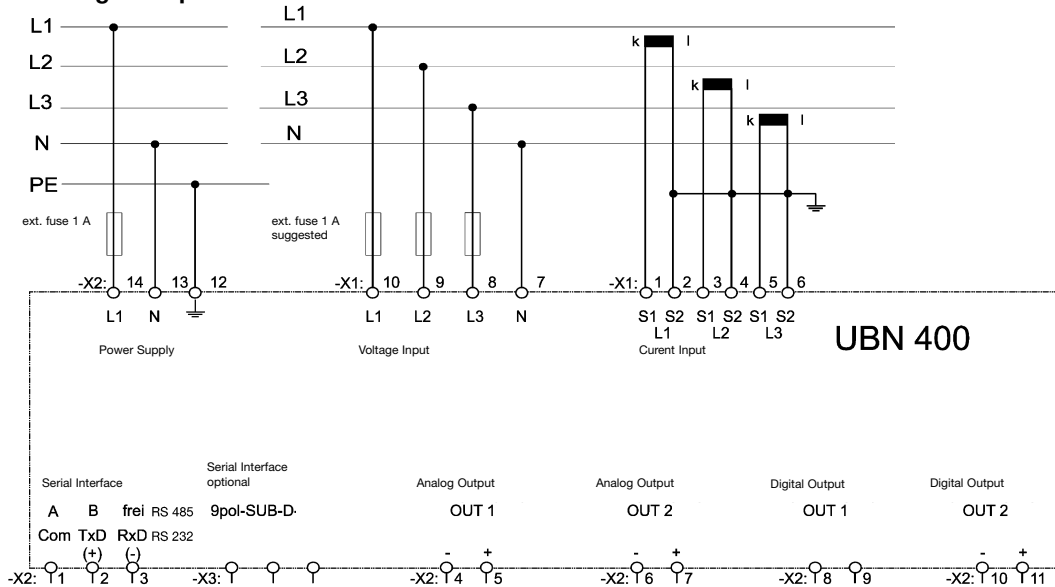
Performable Measurements

Voltage [V]	U L1 - N, U L2 - N, U L3 - N U L1 - L2, U L2 - L3, U L3 - L1 U total (3-phase average)
Current [A]	I L1, I L2, I L3, I total
Power factor [PF]	PF L1, PF L2, PF L3, PF total (3-phase average)
Effective power [kW]	P L1, P L2, P L3, P total
Reactive power [kVAR]	Q L1, Q L2, Q L3, Q total
Apparent power [kVA]	S L1, S L2, S L3, S total
Average [15 min.]	Pav L1, Pav L2, Pav L3, Pav total I th1, I th2, I th3, I th total
Effective energy [kWh]	Wp L1, Wp L2, Wp L3, Wp total (bidirectional)
Reactive energy [kVARh]	WbL1, WbL2, WbL3, Wb total (ind./cap.)
Apparent energy [kVAh]	WsL1, WsL2, WsL3, Ws total (ind./cap.)
Extreme values	Imax L1, Imax L2, Imax L3, Imax total Pmax L1, Pmax L2, Pmax L3, Pmax total
Frequency [Hz]	f

Terminals / Back view



Wiring examples



Technical Specifications

Power supply	95 ... 265 V _{AC} , 50/60 Hz external fuse necessary
Power consumption	max. 5 VA
Voltage input	UL - L 20 ... 500 V _{AC} ; permanent overload + 10 % peak 1000 V _{ms} for 1 s input impedance 1,7 M Ω , burden max. 0,05 VA per phase voltage transformer suggested if UL - L > 460 V _{AC}
Current input	0 ... 1 A / 0 ... 5 A (permanent overload up to 20 %, 100 % for 1 s) minimum measurable current 10 mA maximum measurable current 5 A
Primary current	1 A ... 9999 A in steps of 1 A adjustable
Primary voltage	10 V ... 999,99 kV in steps of 10 V adjustable
Frequency range	45 ... 65 Hz
Accuracy	current: 0,2 % fs voltage: 0,2 % fs power: 0,5 % fs energy: 0,5 % power factor: 1 % \pm 1 digit von 0,5 ind. ... 1 cap. frequency: 0,5 % von 45 ... 65 Hz
Display	graphic LCD, green, 64 x 128 pixel, LED illumination
Operating temperature	-10 ... +50 °C (Feuchte < 80 %, nicht kondensierend)
Storage temperature	-10 ... +70 °C
Output	digital: 2 x relais, max. 350V _{AC/DC} , max. 120 mA pulse length 20 ... 500 ms, adjustable analog*: 2 x Stromschnittstelle 0(4) ... 20 mA
Norms	EN 61010-1, EN 50081-2, EN 50082-1
Housing	full metal
Protection	Front side IP 40, terminals IP 20 acc. EN 60529
Dimensions	96 x 96 x 90 mm (w x h x d) incl. terminals panel cut-out 92 x 92 mm
Terminals	Voltage and current input via plug-in terminals max. 6 mm ² Power supply, digital and analog out via plug-in terminals max. 4 mm ²
Weight	appr. 650 g
Warranty	12 months *) = Option

UBN 400 -

The new universal power meter for single phase and for 3-phase current networks. Including two programmable digital (optional analog) output and serial interface (RS 232/485). Available also with interface for Modbus RTU, Profibus-DP or Suconet K.

Subject to change without notice

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BUS interface for
Modbus RTU
Profibus DP or
Suconet K

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for the new universal power meter

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