

# VAMP 260

## POWER MONITORING UNIT



- Comprehensive measurements
- Inaccuracy 0,5 %
- Freely configurable transducer outputs
- Freely configurable energy pulse outputs
- Freely configurable alarm high/ low limits
- Disturbance recorder
- Various communication protocols including SPA Bus, Profibus, Modbus, Modbus TCP, IEC 61850, IEC 60 870-5-101, IEC 60 870-5-103, TCP/IP



## Main technical data/ VAMP 260

Auxiliary voltage, Uaux	40...265 V ac / dc (optionally 18...36 V dc)
Rated phase current In	1 A or 5 A
- current measuring range	0...50 x In
Rated neutral current Ion	1 A or 5 A
- current measuring range	0...5 x In
Thermal Withstand	4 x In (continuous), 100 x In (for 1 s)
Rated voltage Un	50 – 120 V (configurable)
- voltage measuring range	0 – 160 V (100 / 110 V)
Voltage withstand (continuous)	250 V
Rated frequency fn	45...65 Hz
- frequency measuring range	16...75 Hz
Digital inputs (wetting voltage)	6 pcs
- internal operating voltage	+48 V dc
Heavy duty contacts	2 pcs
Alarm contacts	3 pcs

### Tests and environment

Emission	EN 55022
Immunity	IEC 60255-22-1, IEC 60255-11, EN 61000-4-6, EN 61000-4-5, EN6100-4-4, EN 61000-4-3, EN6100-4-2
Insulation test	IEC 60255-5
Surge voltage	IEC 60255-5
Vibration shock	IEC 60255-21-1
Operating temperature	-10...+55° C
Relative humidity	< 95 %, no condensation allowed
Degree of protection (IEC 60529)	IP54, flush mounted
Weight	4,2 kg
Dimension (w x h x d)	209 x 155 x 225 mm

### Functions

Disturbance recorder	All analogue channels and binary inputs/outputs
Programmable stage	Prg1...8
Measuring; RMS and fundamental	IL1, IL2, IL3, Io, min, max, average Ua, Ub, Uc, U12, U23, U31, min, max, f
Calculation	P, Q, S, min, max, average, by phase E+, E-, Eq+, Eq-, total, trip, pulse output Power factor PQ diagram <sup>(1)</sup> , cos φ, tan φ, Io, I2/I1, Uo, U2/U1
Inaccuracy	0,5 %
Power quality	Harmonics from phase currents: THD, harmonics 2 <sup>nd</sup> to 15 <sup>th</sup> by phase Harmonics from phase voltages: THD, harmonics 2 <sup>nd</sup> to 15 <sup>th</sup> by phase Voltage interrupts / voltage sags and swells Disturbance recorder Demand values
Transducer	Four mA outputs for any relevant signals (option)
Alarms	Any relevant measured or calculated value, 8 channels, user configurable

Note: <sup>1)</sup> with VAMPSET software

### Communication protocols

	IEC 61850
	IEC 60 870-5-101
	IEC 60 870-5-103
	Transparent TCP/IP
	Modbus TCP
	Modbus RTU
	Profibus DP
	SPA

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ISO 9001:2000  
certified company



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