

ZMP series

The ZMP series products have three kinds of products, the standard ZMP and the advanced ZMP8800+ and economy model. These products have multiple choices.

Function	Parameter	ZMP8800E	ZMP8800	ZMP8800+
Phase Voltage	V1,V2,V3,VInavg	√	√	√
Line Voltage	V12,V23,V31,Vllavg	√	√	√
Current	I1,I2,I3,Iavg	√	√	√
Natural Current	Calculated	√		√
Natural Current	In (direct with separate CT) Measured	√	√	√
Power	P1,P2,P3,Ptotal	√	√	√
Reactive Power	Q1,Q2,Q3,Qtotal	√	√	√
Apparent Power	S1,S2,S3,Stotal	√	√	√
Power Factor	PF1,PF2,PF3,PFT	√	√	√
Frequency	Frequency	√	√	√
Energy	Ep_imp, Ep_exp	√	√	√
	Ep_total, Ep_net			
Reactive Energy	Eq_imp, Eq_exp	√	√	√
	Eq_total, Eq_net			
Demand	Dmd_P, Dmd_Q, Dmd_S	√	√	√
Voltage Unbalance	U_unbl	√	√	√
Current Unbalance	I_unbl	√	√	√
Voltage THD	THD_V1, THD_V2, THD_V3	√		√
	THD_V1_Even, HD_V2_Even, THD_V3_Even			
	THD_V1_Odd,			

	THD_V2_Odd, THD_V3_Odd THD_V1+N, THD_V2+N, THD_V3+N			
Current THD	THD_I1, THD_I2, THD_I3	√		√
	THD_I1_Even, HD_I2_Even, THD_I3_Even THD_I1_Odd, THD_I2_Odd, THD_I3_Odd THD_I1+N, THD_I2+N, THD_I3+N TDD_I1, TDD_I2, TDD_I3			
Harmonics	Harmonics 2nd to 31st	√		√
Voltage Crest Factor	Crest Factor	√		√
Current K factor	K_Factor	√		√
MAX with Time Stamp		√		√
MIN with Time Stamp		√		√
Switch Status(DI)	Isolated digital input			√
Relay Output(RO)	Two 2A output Relay			√
LED Pulse Output	MC for active , reactive , apparent energies	√		√
RS485 Port	Modbus Protocol (RTU)	√	√	√
Real Time Clock	Miladi , Shamsi , Daylight Saving	√	√	√
Real Time Clock	RTC Calibration	√		√

Astronomical timer	Lighting control relay			√
thermostat	Fan control relay			√
USB PORT	USB version 2 + safe Port	√	√	√
Digital input				√
Wi-Fi Modem	As access point or station (multi-client)			√
Voltage and current sequence		√	√	√
Unit Software Update		√	√	√
Power Supply	Switching power supply 80-260V input	√		√

Table 1 Comparison of ZMP models

Note1:

There are One DI in the ZMP8800+.

Note2:

The 2 DOs may be used as General purpose or Thermostat or Astronomical Timer controller.

Note3:

Class 0.2S IEC 62053-22 four-quadrant active and reactive energy polyphase static meter.