

EI9 SERIES

Three Phase CT Connected Multifunctional Power Analyzer
EI900/EI910/EI920/EI930

Features:

- RS 485 Modbus RTU/Modbus TCP Communication;
- Modbus TCP Communication: 10/100M self-adaption;
- Current Transformer/RC Input: 1A/5A, or mV/mA CT input;
- Multifunctional Parameters: V, A, W, Var, VA, kWh, kVarh, PF, ...;
- Bidirectional Measurement: Imp/Exp Active Energy, Imp/Exp Reactive Energy;
- Multi-channel Digital Inputs and Outputs (2*DO+4*DI);
- THD: Voltage THD and Current THD;
- Multi-tariffs: 4 tariffs, 8 time segments;
- Direct Voltage Input or High Voltage(PT) Input;
- Multi-channel Digital Inputs and Outputs (2*DO+4*DI);
- CT Reverse-Connect Correction Function;



EI9 series are three phase multifunctional power analyzer to measure and analyze most important electrical parameters, including voltage, current, four-quadrant power parameters, power factor, total harmonic and fractional harmonic content, imbalance, crest factor, and etc. And it can also read a variety of energy parameters, involving bidirectional active and reactive energy, four-quadrant energy, monthly and daily energy consumption statistics, and so on. The series realizes the measurement and analysis of power parameters in various power grid environments, such as 1P2W, 2P3W, 3P3W and 3P4W, providing multi-channel digital input and output interfaces and 30 SOE records. The EI930 series are external voltage transformer (PT) and current transformer (CT) input. The Max. current input is 9999A, and voltage input 600kV.

The products have RS485 communication interface with highest baudrate 38400bps, Modbus or DLT645, to make it read remotely. The meter also has Modbus TCP interface, which provides another way of communication and monitoring. At the same time, the large-screen LCD and touch buttons help users to view and set various measurement parameters on site.

Selection Table

	Multiparameters	4DI+2DO	Multi-tariffs	THD	RS485 Modbus	Ethernet TCP
EI900	●			●	●	
EI910	●	●		●	●	
EI920	●		●	●	●	●
EI930	●	●		●	●	●

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Electrical Parameters

Power Consumption	Voltage Circuit: <2W/10VA Current Circuit: <1VA
Voltage/Current	Class 0.5
Active Power	Class 0.5
Reactive Power	Class 2
Apparent Power	Class 1.0
Active Energy	Class 0.5S
Reactive Energy	Class 2
Power Factor	Class 1.0
Frequency	Class 0.05
Harmonic	Class 2
Data Upgrading Rate	1s (Optional: 100ms)
Rated Voltage	3x230VAC (L-N) / 400VAC (L-L)
Voltage Input	Range: 30~350 VAC (L-N) ; 30~660 VAC (L-L)
PT Input	Max. Input: 600000 VAC
Loop Impedance	1MΩ
Frequency	45~65Hz
Overload Capacity	2x Rated Voltage by lasting 1s
CT 2	Rated: 1A/5A; 100mA/mV (Optional)
CT 1	1~9999A
Current Input	0.01~6A, Rated: 5A
Loop Impedance	<0.01ohm
Overload Capacity	20x Max. Current by lasting 0.5s
Aux. Power Supply	80~300VAC / 100~420VDC
Frequency of A.S	45~65 Hz
Power Consumption of A.S	<4VA/0.5W
Digital Input	4 Channels
Type	Dry Contact Input (Internal Power Supply: 20 ~ 24VDC)
Impedance	>10kΩ
Max. Input Frequency	250Hz
Response Time	2ms
AC Withstand Voltage	2.5kVAC by lasting 1min
Digital Output	2 Channels of Electromagnetic Relay Output
Frequency	Max. 10Hz
Contact Capacity	250VAC/3A
AC Withstand Voltage	2.5kVAC by lasting 1min
Pulse Light on Meter	Pulse Constant: 5000imp/kWh(Energ for secondary side)
Accuracy of RTC	0.5s/d
International Standard	IEC62053-21/22

Mechanical Specifications

IP Class	LCD display: IP51(Indoor) ; Whole meter: IP30
Flammability Class	UL 94 V-0
Utilization Category	UC 2

Environment Specifications

Operation Temperature	-25 ~ +55°C
Storage Temperature	-40 ~ +80°C
Humidity	<90%, no condensing
Pollution Degree	2
Altitude	<2000m
Vibration Frequency	Range: 10~150Hz

Safety Specifications

Installation Degree	CAT II
Current Input	External CT/RC Input
Over-voltage Degree	CAT III
Insulation	AC Withstand Voltage: 4kVAC by lasting 1min
	Pulse Withstand Voltage: 6kVAC - 1.2/50μs waveform
Insulation Degree	Double Insulation

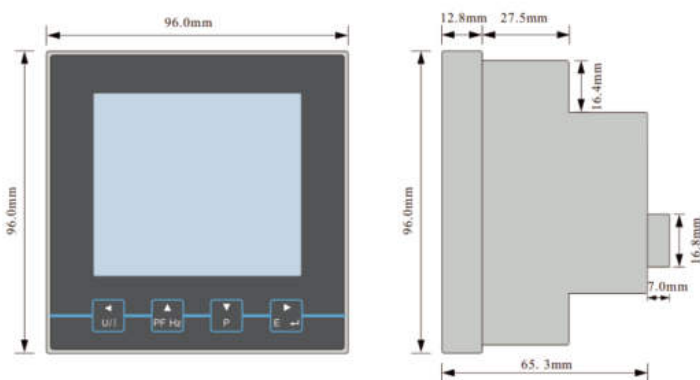
Communication Specifications

Interface and Protocol	2 Wire RS485; Modbus RTU, DL/T645-2007
Baudrate	1200,2400,4800,9600,19200,38400 bps
Parity	None, Even, Odd
Stop Bit	1, 2
Response Time	<100ms
Bus Type	Semi-duplex
Distance	Max. 1000m
Bus Load	Max. 64pcs

Please find more details via:



Product Size



Wiring Diagram (see more in user manuals)

