

### **MULTIFUNCTIONAL MEASUREMENT**

- Accurate Measurement Voltage, Current, Power, Power Factor, Frequency, etc
- 0.2% Accuracy on Voltage and Current

#### **REVENUE METERING**

- Bi-Directional Energy: Import Energy, Export Energy
- IEC62053-22 0.5S
- TOU, Four Tariffs, 14 Schedules

## **POWER QUALITY ANALYSIS**

- THD and Individual Harmonics to 31st
- Waveform Record

# **OVER/UNDER LIMIT ALARM**

- Over or Under Setting Limit
- Power Measurement Parameters can be Set
- Alarm can Trigger the Relay Output

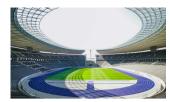


#### **APPLICATIONS**

- Commercial Complex/Mall
- Power Distribution



- Light Rail Transit System
- Energy Management Systems



- University/School
- Building Automation



- Industrial Facility Metering
- Industrial Enterprise



#### **FEATURES**

#### Metering

- Phase-to-Neutral Voltage, Line-to-Line Voltage, Current
- Active Power, Reactive Power, Apparent Power, Power Factor
- Frequency
- Load Nature
- Energy

#### **Energy and Energy Record**

- Bi-Directional Energy
- Single-Phase Energy
- Monthly Energy Record

#### Time of Use (TOU)

- Two TOU Settings can Automatically Switch at the Setting Time
- Four Tariffs, 12 Seasons, 14 Schedules
- DST Function
- Weekend and 10-Year Holiday Settings

### **Power Quality**

- Voltage Unbalance, Current Unbalance
- THD and Individual Harmonics to 31st
- Crest Factor, THFF, K Factor
- Voltage and Current Phase Angles

#### **Alarms**

- Over or Under Setting Limit
- Power Measurement Parameters can be Set

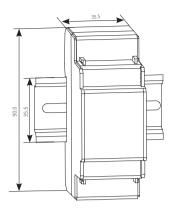
#### **Terminal Temperature Measurement**

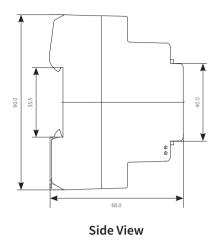
- Three Circuits Direct Measurement
- Built-In Sensor

#### **Display**

- OLED
- Two Languages: Chinese and English

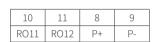
**DIMENSIONS** Unit: mm



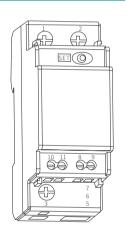


### **TERMINAL DIAGRAM**

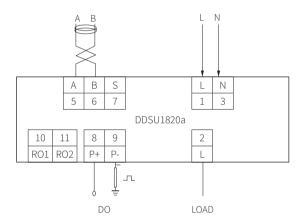
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3	5	6	7
N	Α	В	S



## **TYPICAL WIRING**



## **SPECIFICATION**

### **Measurement Accuracy**

Parameters	Accuracy	Resolution	Range
Voltage	0.2%	0.1 V	175 V ~ 265 V
Current	0.2%	0.001 A	0.25 A ~ 80 A
Active Power	0.5%	0.001 kW	-20 kW ~ 20 kW
Reactive Power	0.5%	0.001 kvar	-20 kvar ~ 20 kvar
Apparent Power	0.5%	0.001 VA	0 ~ 20 kVA
Power Factor	1%	0.001	-1.000 ~ 1.000
Frequency	0.05%	0.01 Hz	50 or 60 Hz (±5%)
Active Energy	0.5S	0.01 kWh	0 ~ 2000000 kWh
Reactive Energy	0.5%	0.01 kvarh	0 ~ 2000000 kvarh
Apparent Energy	0.5%	0.01 kVAh	0 ~ 2000000 kVAh
THD & Harmonics	2%	0.01	2nd ~ 31st
Temperature	±2 °C	0.1 °C	-20 ~ 150 °C

# **Operating Conditions**

Metering	Parameters	Specification	
Voltage	Nominal Voltage	230 V AC	
	Voltage (Max)	230 V AC (-20% ~ +15%)	
	Load	≤0.6 W	
	Range	230 V AC (-20% ~ +15%)	
	Accuracy	0.5%	
Current	Reference Current I <sub>ref</sub>	20 A	
	Current (Max) I <sub>max</sub>	80 A	
	Current (Min) I <sub>min</sub>	0.25 A	
	Starting Current I <sub>st</sub>	<20 mA	
	Accuracy	0.5%	
Frequency	Frequency	45 ~ 65Hz	
Energy	Active Energy	0.5\$	
	Reactive & Apparent Energy	0.5	
Light Pulse	Pulse Constant	1000 imp/kWh	
Light Futse	Pulse Width	40 ms	
	Voltage	5~30 V DC	
Pulse Output	Current	5 ~ 50 mA	
ruise output	Pulse Width	10 ~ 999 ms	
	Pulse Constant	1 ~ 5000 imp/kWh, Settable	
Communication	RS485	Modbus RTU, Baud Rate: 1200 ~ 38400 bps	
	Туре	FORM A	
Relay Output	Switching Voltage	250 V AC or 30 V DC	
Relay Output	Switching Current	5A	
	Output Type	Level or Pulse	
Operating Environment	Operating Temperature	-25 °C ~ +70 °C	
	Storage Temperature	-40 °C ~ +85 °C	
	Relative Humidity	5% ~ 95% (Non-Condensing)	
	IP Degree of Protection	UL 94V0	
	Electrostatic Discharge Immunity	IEC 61000-4-2	
Electromagnetic Compatibility	Fast Transients Immunity	IEC 61000-4-4	
	Surge Immunity	IEC 61000-4-5	
	Radiated Field Immunity	IEC 61000-4-3	
	Conducted Disturbances Immunity	IEC 61000-4-6	
	Radiated and Conducted Emission	EN 55032 /CISPR 32 Class B	

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