

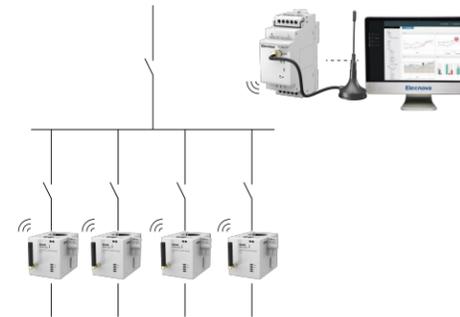
WIRELESS TRANSMISSION POWER METER

www.sfere-elec.net
Electrical Application Solution Expert



INTRODUCTION

SDT series power meter is a new type of power measurement device. Due to its puncture installation and wireless transmission technology, SDT series power meter has many advantages such as compact size, less wiring and easy installation. It is especially suitable for the energy management of the built projects.



- Single phase or three phase: 230V/400V,50(400)A, 45-65 Hz
- V/A/P/Q/S/F/PF
- Demand/Max/Min/Average value
- THD(2nd~31st)
- kWh: Class 1
- Installation without cutting off the power
- LoRa or RS-485,ModBus-RTU
- Suitable for existing installations



MODEL SELECTION



	SDT11L	SDT11R	SDT13L	SDT13R
V/A/F/P/Q/S/PF	■	■	■	■
Demand/Max/Min/Averagevalue	■	■	■	■
THD	■	■	■	■
Harmonics	■	■	■	■
Energy	■	■	■	■
Temperature	■	■	■	■
SOE	■	■	■	■
LoRa	■	-	■	-
RS485	-	■	-	■

Note: 1. ■ Yes, - No;

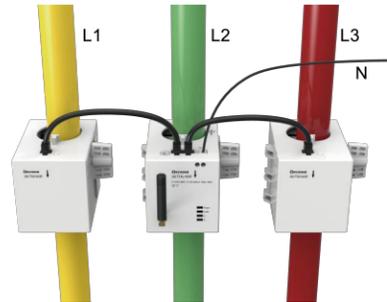
2. When selecting SDT11L or SDT13L, PD194-C10 module (LoRa to RS485) can be selected to access RS485 network.



INSTALLATION



Single phase

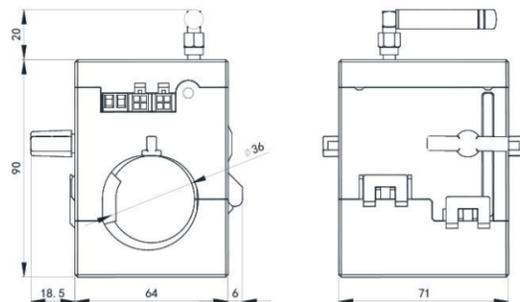


Three phase

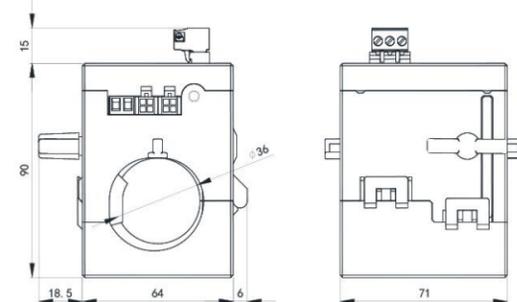


DIMENSION

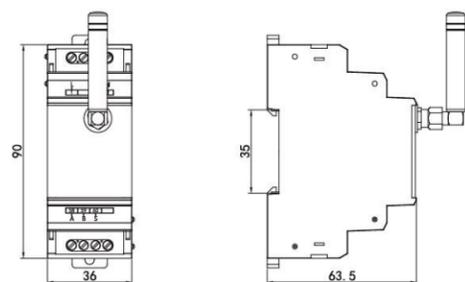
SDT11L, SDT13L



SDT11R, SDT13R



PD194Z-C10



Unit: mm



TECHNICAL PARAMETER

		SDT11	SDT13
Accuracy	V/A : 0.5%	V/A : 0.5%	V/A : 0.5%
	kWh : Class 1	kWh : Class 1	kWh : Class 1
	kvarh : Class 2	kvarh : Class 2	kvarh : Class 2
Signal Input	Rated voltage	230V	3x230V / 400V
	Rated current	50(600)A	3x50(600)A
Wiring	Rated voltage	1P2W	3P4W
Frequency	Rated current	45 ~ 65Hz	
Working Voltage Range		0.8Un ~ 1.2Un	
Power Consumption	Voltage loop	≤2VA	
	Current loop	≤0.1VA	
Starting Current		100mA	
Communication	LoRa	Modbus-RTU protocol, default 470MHz, optional 868MHz/915MHz	
	RS485	ModBus-RTU protocol, baud rate up to 9600bps	
Working Environment	Operating temperature	-10°C ~ 55°C	
	Storage temperature	25°C ~ 70°C	
	Relative humidity	≤95%RH	
	Altitude	≤2500m	