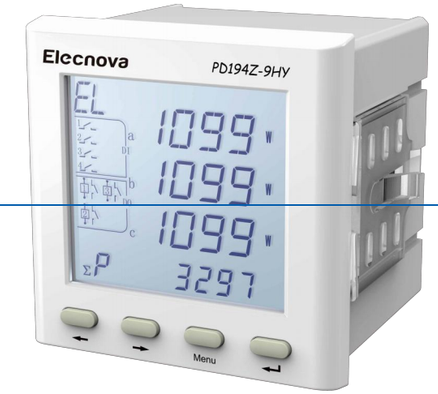
TECHNICAL SPECIFICATION

Display Mode		LCD
Accuracy	V/A	0.2%
	P/Q/S/PF	0.5%
	F	±0.01Hz
	±kWh	Class 0.5S
	±kvarh	Class 2
Voltage Input	Rated value	AC 100V, AC 380V
	Overload	Continuous: 1.2Vn Instantaneous: 2Vn/10s
	Burden	≤0.1VA (per phase)
	Impedance	≥1.7MΩ
	Frequency	45Hz~65 Hz
Current Input	Rated value	AC 1A, AC 5A
	Overload	Continuous: 1.2In Instantaneous: 2In/5s
	Burden	≤0.2VA (per phase)
	Impedance	≤20mΩ
Power Supply	Working range	AC 80~270V 50/60Hz, DC 100~350V
	Consumption	≤5VA
Communication Port		RS485, Modbus-RTU, 2-wire, up to 38.4kbps
Energy Pulse Output		1 photocoupler output, pulse width (80±20%) ms
Digital Input		2 AC wet contact inputs, Isolation: 5kVAC
Relay Output		2 relay outputs, Contact rated at AC 5A/250V or DC 5A/30V, Isolation: 2kVAC
Environment Conditions	Operating temperature	-25 C ~70 C
	Storage temperature	-30 C ~80 C
	Relative humidity	≤93%
	Altitude	≤2500m
Insulation		≥ 2kVAC
IP Degree		Front IP54, Rear IP20

PD194Z-9HY



0.5S

Harmonics
Energy Accuracy 0.5S
Pulse Output

FUNCTION

Networks
-TN, TT, IT networks

Accuracy
-Energy: 0.5S
-Voltage: 0.2%
-Current: 0.2%

Communication
-Interface: RS485
-Protocol: Modbus-RTU
Profibus-DP (Optional)

MAIN FEATURES

Measuring
-Fundamental V/A
-Demand
-Max./Min. Value
-Load profile

Energy Metering
-Bi-directional energy
-Four-quadrant reactive energy
-Tariff energy

Power Quality
-Harmonics up to 31st
-Unbalance

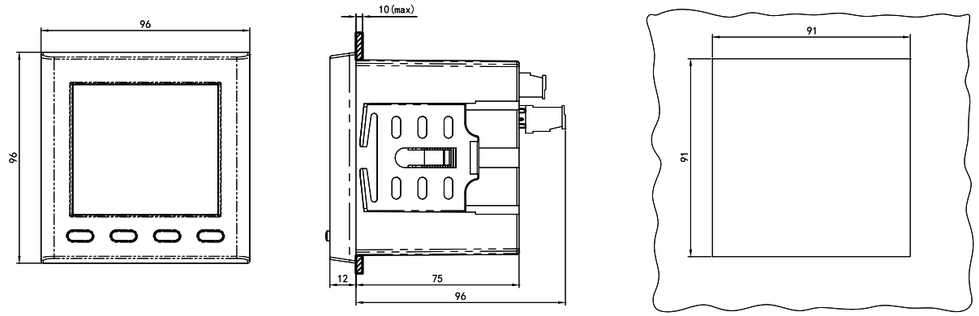
APPLICATIONS

Data Acquisition

Energy Management

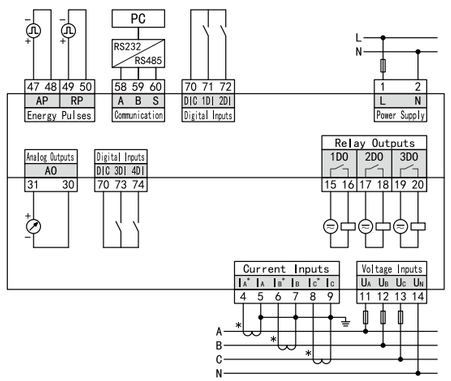
Remote Power Monitoring

DIMENSIONS

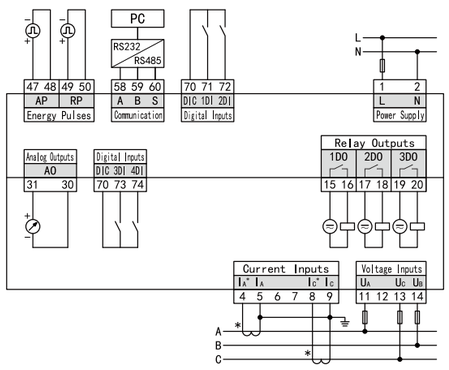


TYPICAL WIRING

3P4W



3P3W



TECHNICAL SPECIFICATION

Feature			
Accuracy			U,I: class 0.2, P, Q, PF: class 0.5, Harmonic: class S, Active energy: class 0.5S, Reactive energy: class 2, Analog output: class 0.5
Display			LCD
Signal Input	Signal Input		3 phase 4 wire, 3 phase 3 wire, single phase
	Voltage	Rated Value	AC100V, AC380V
		Overload	Continuous: 1.2 Vn, Instantaneous: 2 Vn/10s
		Consumption	<0.1VA(each phase)
		Impedance	> 1MΩ
	Current	Rated Value	AC1A, AC5A
		Overload	Continuous: 1.2 In, Instantaneous: 10 In/5s
		Consumption	<0.1 VA(each phase)
		Impedance	<20mΩ
	Frequency		(50±5%) (60±5%) Hz, accuracy: ±0.01Hz
	Harmonic		Voltage, current total harmonic distortion and 2nd-31st times odd harmonic distortion
	Energy		Bi-directional active and reactive metering
Power Supply	Working range		AC, DC: 80V～270V
	Consumption		<5VA
Function Module	Energy pulse output		2 loops energy pulse output, photo coupler relay, constant 5000imp/kWh(kvarh)
	Communication port		1 loop RS-485, MODBUS-RTU, Baud rate: 2400～9600bps
	Digital input		At most 4 loops digital inputs, dry node connection
	Relay output		At most 3 relay outputs, AC250V/5A, DC30V/5A
	Analog output		1 analog output: 0/4～20mA or 0～5/10V
Operating Environment			-20～70°C, humidity≤93%, no erosion gas, altitude≤2500m
Storage Environment			-30～80°C, humidity≤93%
Safety	Insulation		Signal, power, output terminal to case resistance> 100MΩ
	Withstand voltage		Input and power> 2kV, Input and output> 1kV, power and output> 2kV

Elecnova