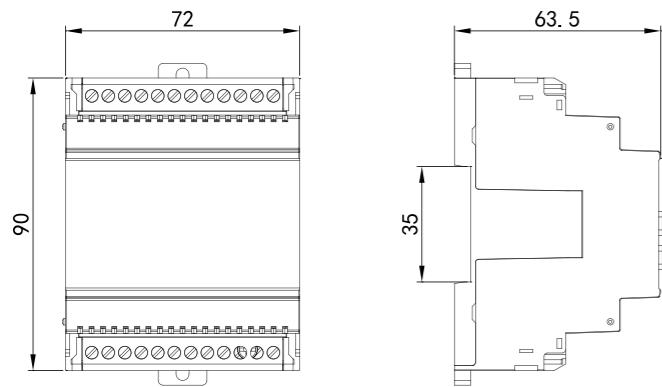
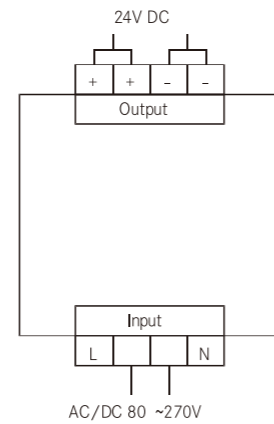




DIMENSIONS



TYPICAL WIRING



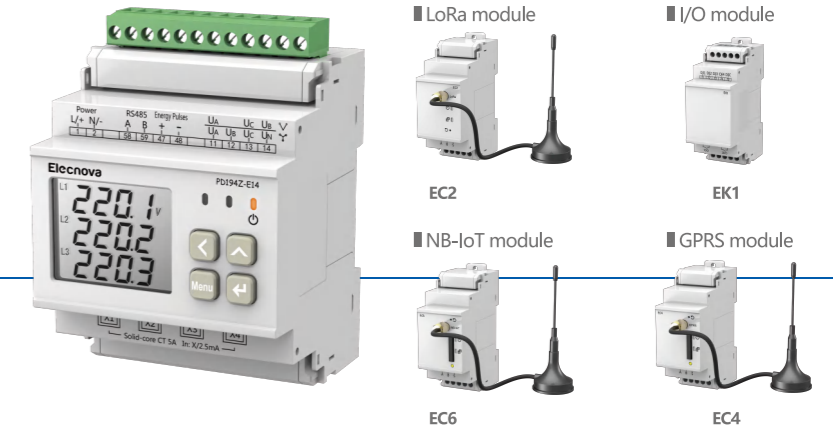
TECHNICAL SPECIFICATION

Safe Power Supply	AC/DC 80V~270V
Output Voltage	DC: 24V
Output Power	≤20W
Accuracy	±1%
Effectiveness	≥75%
Insulation	≥2kVAC

PD194Z-E14



Multi-circuit
Harmonics
Modbus Interface
Energy Accuracy 0.5S
Pulse Output



DEVICES



FUNCTION

- Networks**
 - TN, TT, IT networks
- Communication**
 - Interface: RS485
 - Protocol: Modbus-RTU
 - LoRa
 - NB-IoT
 - GPRS
- Accuracy**
 - Energy: 0.5S (Closed Type CT)
 - Voltage: 0.2%
 - Current: 0.2%



MAIN FEATURES

- Measuring**
 - Fundamental V/A
 - Demand
 - Max./Min. Value
- Power Quality**
 - THD
 - Harmonics up to 31st
 - Sequence component
 - Unbalance
 - Crest factor and K factor
- Energy Metering**
 - Bi-directional energy
 - Four-quadrant reactive energy
 - Tariff energy
 - Fundamental energy

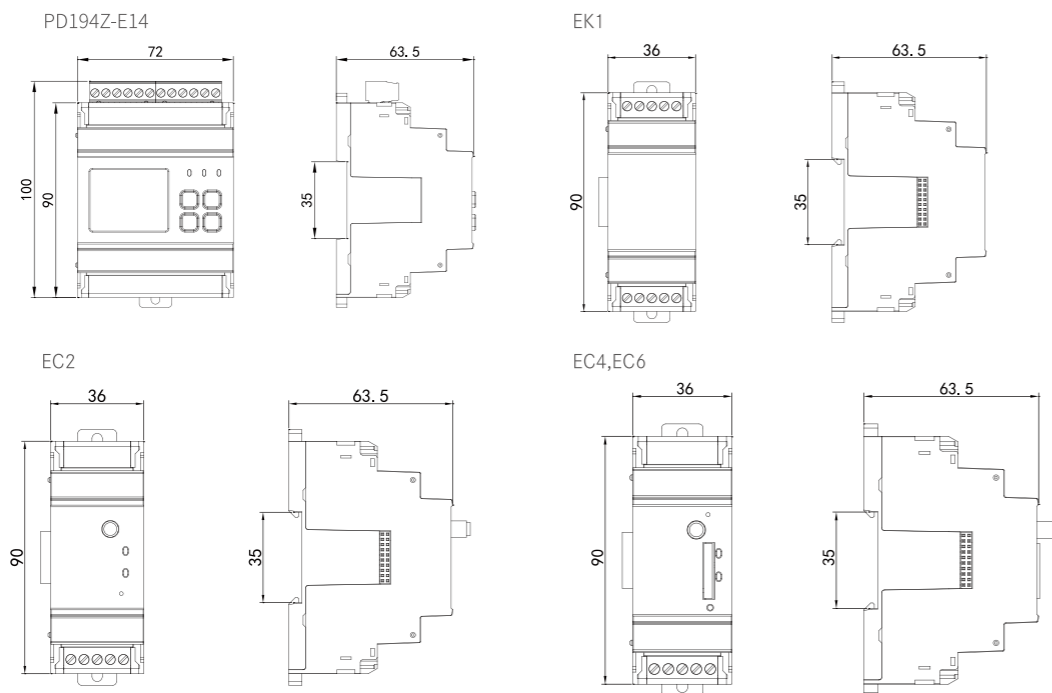


APPLICATIONS

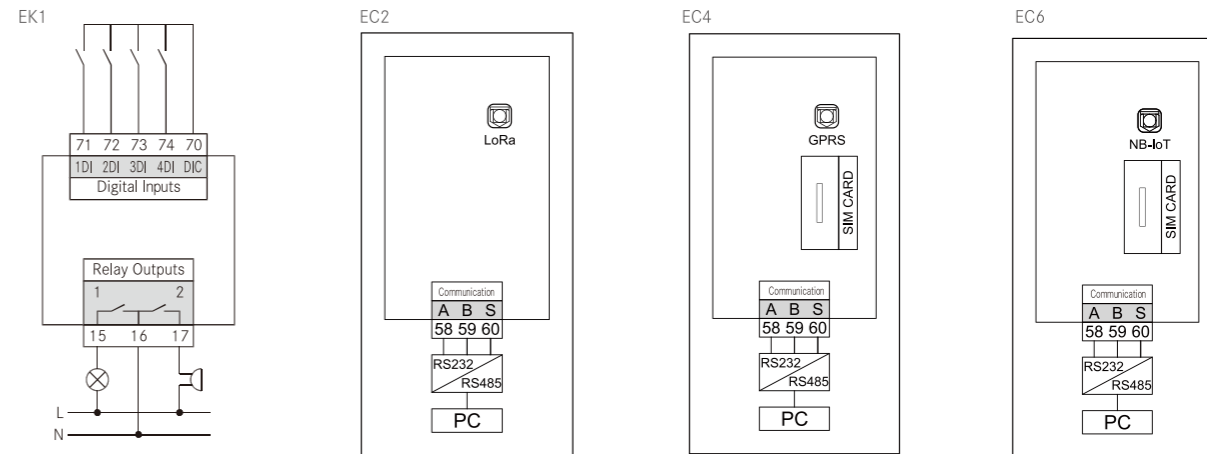
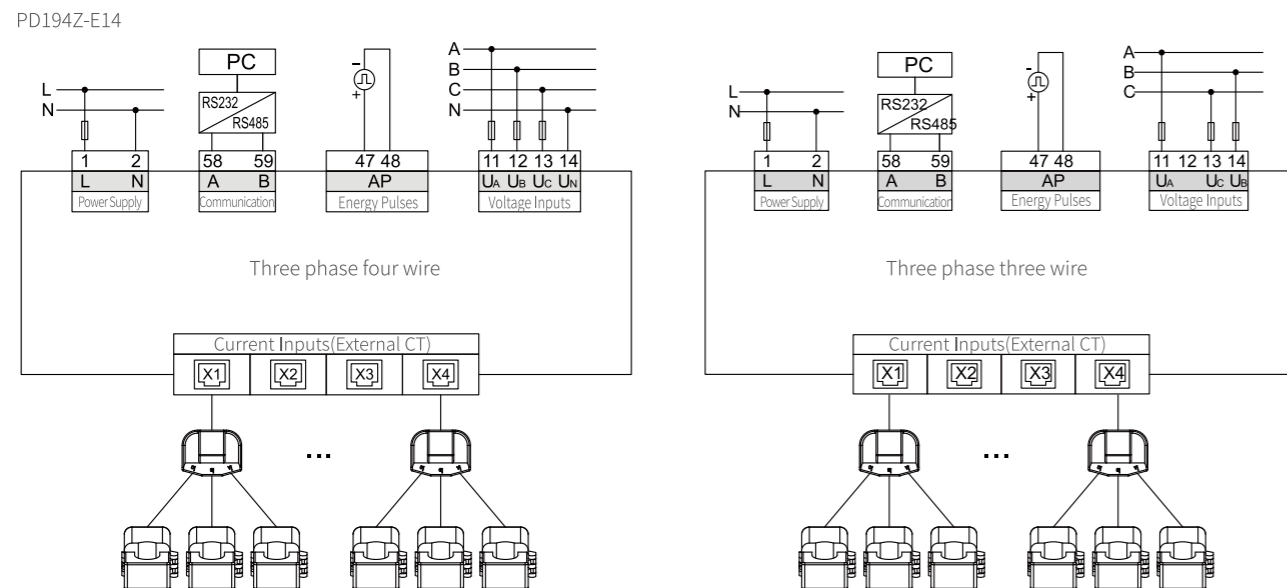
- Data Acquisition
- Energy Management
- Remote Power Monitoring



DIMENSIONS



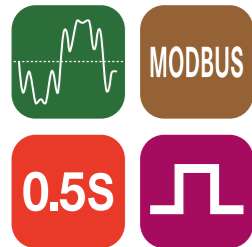
TYPICAL WIRING



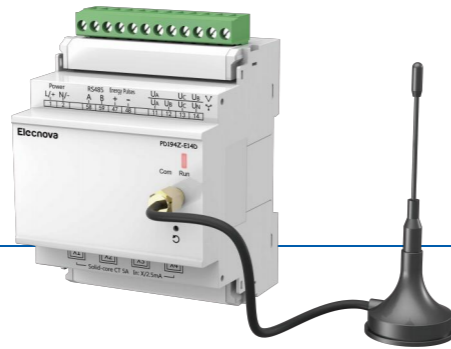
TECHNICAL SPECIFICATION

Display Mode	LCD
Accuracy	V/A: 0.2% P/Q/S/PF: 0.5% F: ±0.01Hz ±kWh: Class 0.5S (Closed Type CT) ±kvarh: Class 2
Voltage Input	Rated value: 3×220V/380V Overload: Continuous: 1.2Vn Instantaneous: 2Vn/10s Burden: ≤0.1VA (per phase) Impedance: ≥1.7MΩ Frequency: 45Hz~65Hz
Current Input	Rated value: External CT Overload: Continuous: 1.2In Instantaneous: 2In/5s Burden: ≤0.2VA (per phase) Impedance: ≤20mΩ
Auxiliary Power Supply	Working range: AC 80~270V 50/60Hz, DC 100~350V Consumption: ≤5VA
Communication Port	RS485: Modbus-RTU, 2-wire, up to 9600bps LoRa, EC2 module: 470MHz GPRS, EC4 module: 850/900/1800/1900MHz NB-IoT, EC6 module: Band3/5/8
Energy Pulse Output	1 photocoupler output, pulse width (80±20%) ms
Optional Module (EK1)	Digital inputs: Dry digital inputs, Isolation: ≥2kVAC Relay outputs: Contact rated at AC 250V/5A or DC 30V/5A
Environment Conditions	Operating temperature: -25 C ~ 70 C Storage temperature: -30 C ~ 80 C Relative humidity: ≤93% Altitude: ≤2500m
Insulation	≥ 2kVAC

PD194Z-E14C/D/E



Harmonics
Modbus Interface
Energy Accuracy 0.5S
Pulse Output



FUNCTION

Networks

-TN, TT, IT networks

Communication

-RS485 : Modbus-RTU
-LoRa
-NB-IoT
-GPRS

Accuracy

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



MAIN FEATURES

Measuring

-Fundamental V/A
-Demand
-Max./Min. Value

Power Quality

-THD
-Harmonics up to 31st
-Sequence component
-Unbalance
-Crest factor and K factor

Energy Metering

-Bi-directional energy
-Four-quadrant reactive energy
-Tariff energy
-Fundamental energy



APPLICATIONS



Data Acquisition



Energy Management

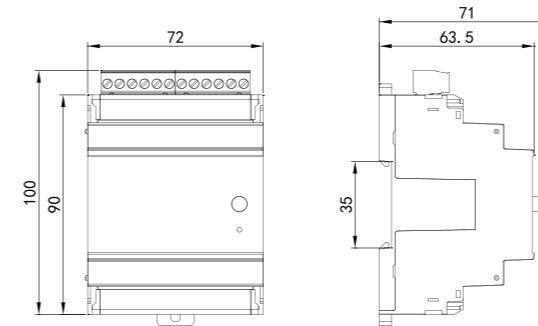


Remote Power Monitoring



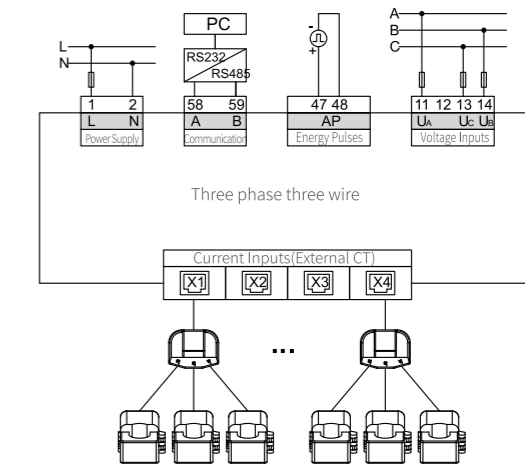
DIMENSIONS

PD194Z-E14C/D/E



TYPICAL WIRING

PD194Z-E14C/D/E



TECHNICAL SPECIFICATION

Model		PD194Z-E14C	PD194Z-E14D	PD194Z-E14E
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	3×220V/380V		
	Overload	Continuous: 1.2Vn Instantaneous: 2Vn/10s		
	Frequency	45Hz~65Hz		
Current Input	Rated value	External CT		
	Overload	Continuous: 1.2In Instantaneous: 2In/5s		
Auxiliary Power Supply	Working range	AC/DC 80~270V 50/60Hz		
	Consumption	≤5VA		
Communication Port	RS485	Modbus-RTU, up to 9600bps		
	LoRa	-	-	470/868/915MHz
	GPRS	850/900/ 1800/1900MHz	-	-
	NB-IoT	-	Band 3/5/8	-
Energy Pulse Output		1 photocoupler output, pulse width (80±20%) m		
Environment Conditions	Operating temperature	-25 C ~ 70 C		
	Storage temperature	-30 C ~ 80 C		
	Relative humidity	≤93%		
	Altitude	≤2500m		
Insulation		≥ 2kVAC		