

PD194Z-9HYX

- Real-time measurement
- Energy metering
- Switch status monitoring
- Power quality monitoring
- Electric safety monitoring



Accuracy

- U , I , Class 0.2
- P , Q , PF Class 0.5
- kWh Class 0.5S

Applications

- Energy management
- Power monitoring

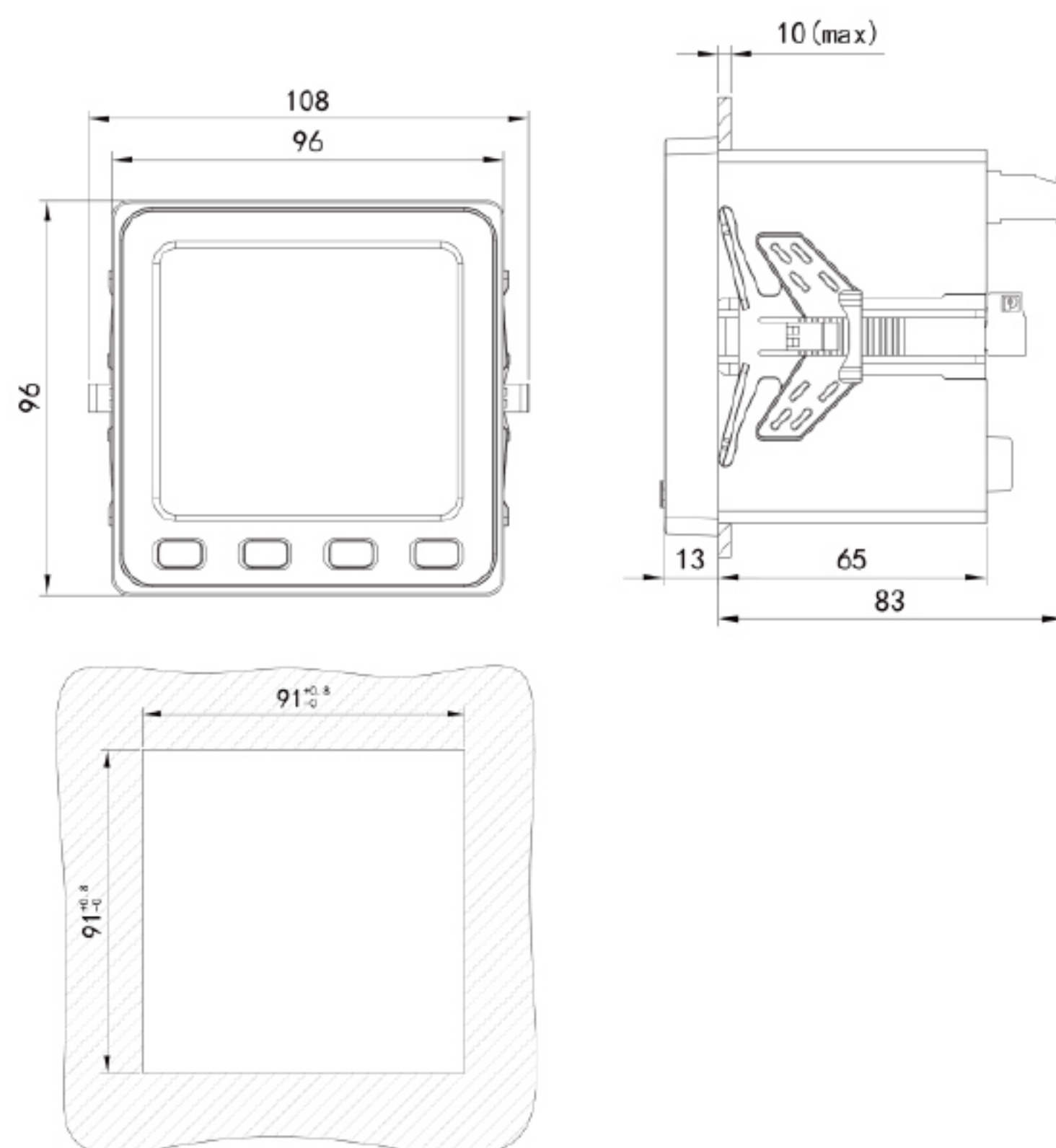
Model

"●" Yes "—" No

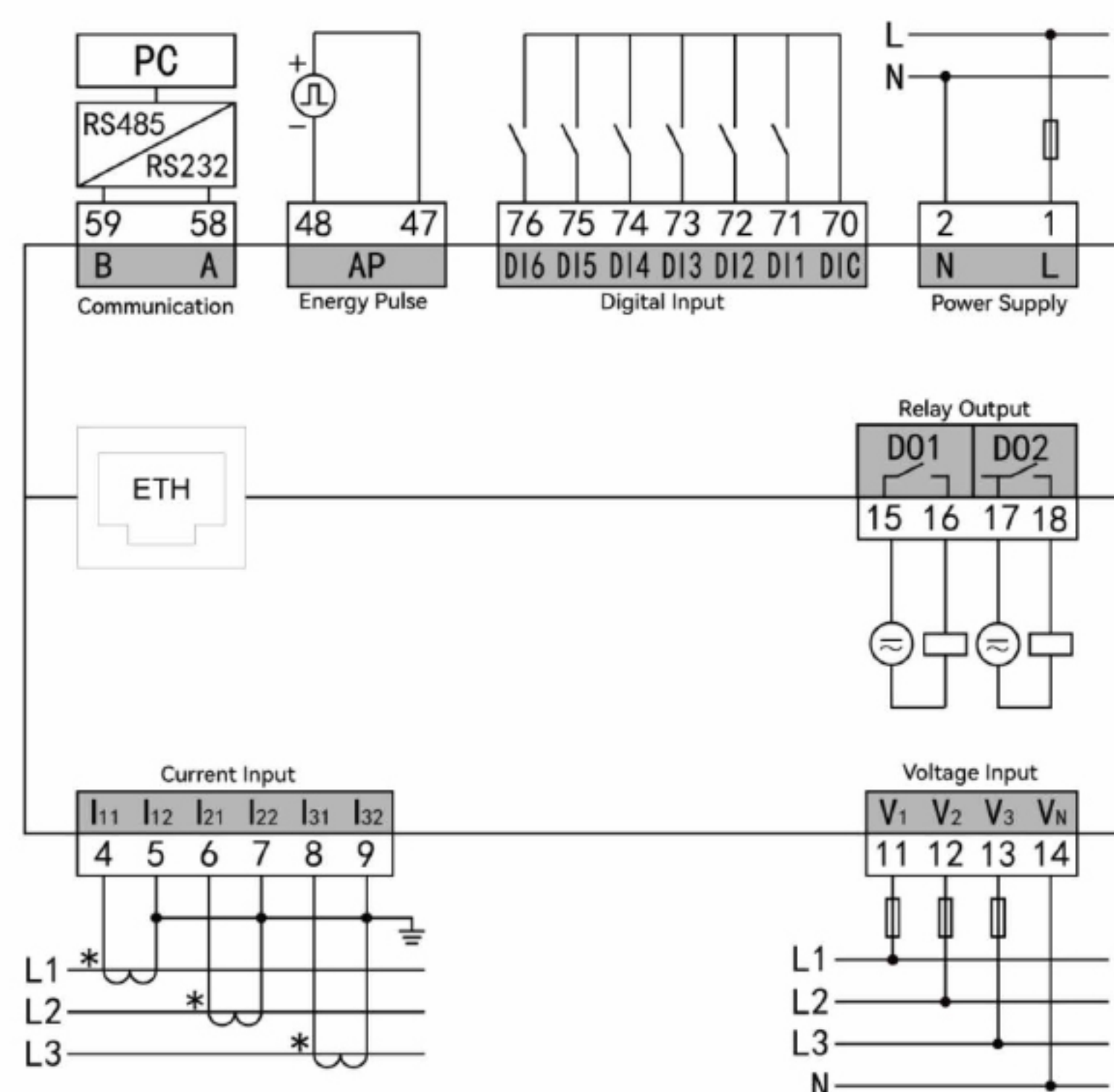
Function		PD194Z-9HYX
Display method	3.8" LCD	●
	U, I, P, Q, S, PF, Hz	●
Real-time measurement	Demand	●
	Max, Min, Average value	●
Energy metering	Bi-directional active energy	●
	Bi-directional reactive energy	●
	Four-quadrant reactive energy	●
	Tariff energy (6 sets)	●
Power quality monitoring	THDi, THDu	●
	Individual harmonic ratio	2-51st
	Unbalance	●
	Voltage crest factor	●
	Current K factor	●
Communication	RS485	1
	Ethernet	1
Input/Output	Digital input	6
	Relay output	2
Others	Event records	●
	8M Byte data memory	●
	Communication register address mapping	●



Dimensions



Typical Wiring



Technical Specification

Voltage measurement input

Measurement range	10-276 VAC(L-N)17-480VAC (L-L)
Startup value	10V
Resolution	0.1 V
Impedance	$\geq 1.7 \text{ M}\Omega$ /phase
Power consumption	$\leq 0.1 \text{ VA}$ /phase
Overload	Continued: 1.2Vn, Instantaneous: 2Vn/1min
Frequency	45Hz-65Hz

Environmental features

Operating temperature	-25°C - +70°C
Relative humidity	5%-95%RH, No condensation
Working altitude	$\leq 2000\text{m}$
Pollution degree	2

Mechanical features

Dimension	96mm×96mm×83mm
IP	Front IP54, Back IP20

Security features

Measurement category	300V CAT III
Safety	IEC 61010-1, Double insulation

Standard

IEC 61557-12, IEC62053-22, IEC62053-23, IEC 61010-1, IEC 61326-1

Current measurement input

Rated value	1A or 5A
Startup value	10mA
Resolution	1mA
Impedance	$\leq 20\text{m}\Omega$ /phase
Power consumption	$\leq 0.2 \text{ VA}$ /phase
Overload	Continued: 2In, Instantaneous: 20In/1s

Relay output

Number	3 (MAX)
Contact rating	AC 250V/5A or DC30V/5A (AC1)

Digital input

Number	6
Type	Dry contact, built-in DC 24V

Auxiliary power

Voltage	AC/DC 80V-270V
Power consumption	$\leq 5\text{VA}$

Communication Interface

RS485 Port	Modbus-RTU, up to 38400bps
Ethernet Modbus-TCP	Modbus-TCP

Real Time Clock

Clock drift	$\leq 0.5\text{s/day}$
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