

PMAC202 AC Branch Circuit Power Meter

Application

- Load management
- > Data Center
- > Telecommunication

Function

- > Measuring: 1 main circuit + 42 branch circuits
- > **DI/DO:** 4 status inputs (dry contact), 2 relay outputs, 1 pulse output
- Settable Pre-Alarm function:
 Main circuit: Alarm for voltage, current, current unbalance
 (optional alarm for leakage current/ temperature alarm)
 Branch circuit: Alarm for current (Io-Io-limit, Io-limit, hi-limit, hi-hi-limit)
- > **Communication:** RS485, support Modbus-RTU protocol
- > Phase sequence of branch circuit is programmable
- > Optional CT input for branch circuit: 50A, 100A, 200A
- > Settable wiring for branch circuit: Either single phase or 3 phase
- Historical kWh record: kWh yearly consumption of last 10 years, kWh monthly consumption of last 12 months



Measurement

Ма	in circuit measuring:	Accuracy
۶	Voltage-Ua, Ub, Uc	(0.5%)
۶	Currentla, lb, lc, ln, l unbal, Max. l	(0.5%)
۶	Active power– Pa, Pb, Pc, ∑P	(1.0%)
۶	Reactive power – Qa, Qb, Qc, ∑Q	(2.0%)
۶	Power factor – PFa, PFb, PFc, ∑PF	(1.0%)
\triangleright	Frequency – F	(±0.01Hz)
۶	Active energy – kWh	(1.0%)
۶	Reactive energy – kvarh	(2.0%)
۶	Demand (for 3I, 3P, Ptot) and Max. demand	
۶	THD for U, I	(2~31 st)
۶	Leakage current (optional)	(0.5%)
≻	Temperature (optional)	(0~120'C)

Branch circuit measuring:

Accuracy

۶	CurrentI, Max. I,	(0.5%)
۶	Active powerP,	(1.0%)
≻	Reactive powerQ,	(1.0%)
۶	Power factor PF	(1.0%)
≻	Active energykWh,	(1.0%)
≻	Reactive energy–kvarh,	(2.0%)
۶	Demand (for I, P)and Max. demand	

THD for I



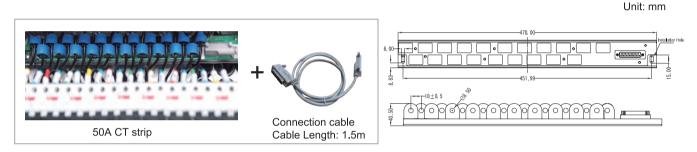
PMAC202 & Accessories

Unit: mm



CT module:

1) Multiple fixed CT strip: Multiple fixed CT strip, rated current 50A/ 25mA, Each CT strip has 21 fixed CTs, accuracy: class 0.5



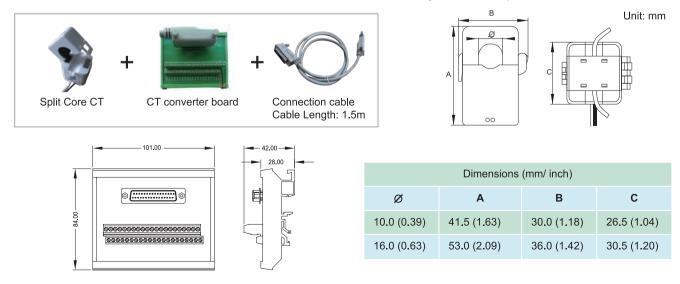
2) Independent fixed CT: Rated current 50A/ 25mA, standard CT cable length : 2.5m, accuracy : class 0.5

Unit: mm



3) Split Core CTs: Rated Current: 50A/ 25mA. Diameter: 10mm or 16mm (Optional). Standard CT cable length: 2m. Accuracy: class 1.0 (for 10mm) or class 0.5 (for 16mm)

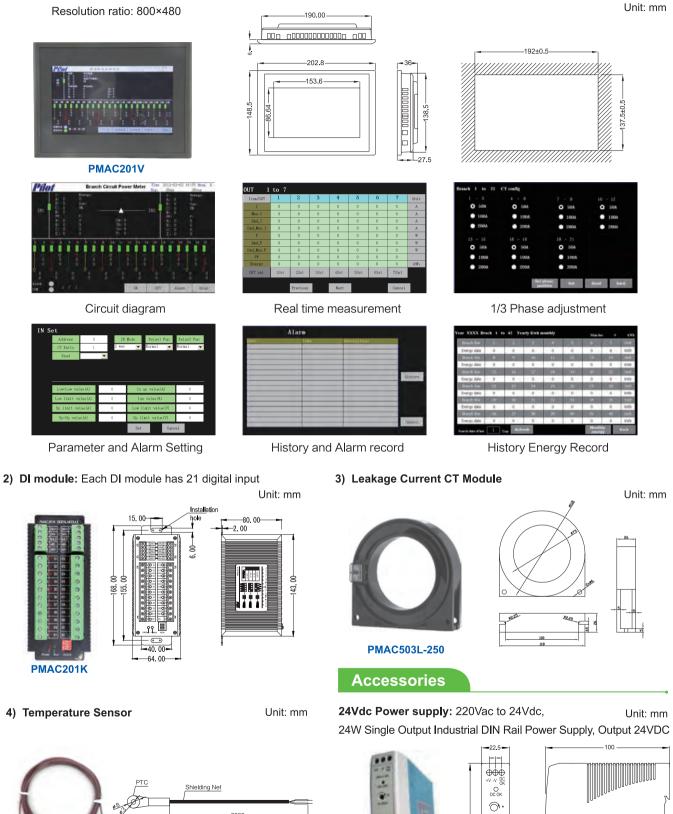
> Rated Current: 100A/50mA or 100A/100mA. Diameter: 16mm. Standard CT cable length: 2m. Accuracy : class 0.5 Rated Current: 200A/100mA. Diameter 24mm. Standard CT cable length: 2m. Accuracy : class 0.5





1) HMI: 7" touch screen LCD. One HMI monitors max. 4 units of PMAC202 main module

3000



PT100

MDR-20-24

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Technical Specification

Incoming circuit	1 circuit, three phase 220V/380V ac			
Outgoing circuit	Max. up to 42 circuit per unit			
Power supply	24V DC , range: 18~30V DC			
MTBF	≥50000h			
Service Life	10 years			
Rated Voltage	220V/380V ac Range: 10%~120%, Accuracy: 0 . 5%			
Rated incoming circuit current	5A, Range: 1%~120%, Accuracy: 0.5%			
Rated outgoing circuit current	CT Strip: 50A/25mA (Max. 65A), Accracy:0.5% Independent CT: 50A/25mA(Max.65A), Accuracy: 1.0% or 0.5% Split core CT: 50A(65A), 100A, 200A, Accuracy: 0.5%			
Rated Frequency	50Hz, Range: 45~65Hz, ±0.01Hz			

Demand	Demand Interval: 15 mins Slip interval: 1 min.
Communication	RS485 port Baud rate: 2400, 4800, 9600, 19200, 38400 (optional)
DI module	Incoming circuit: Dry contact Outgoing circuit: wet contact, 220Vac Range: 70%~120% or Dry contact
Relay output capacity	250Vac/5A or 30Vdc/5A
IP index	Main Module: IP20 HMI (Front board): IP65
Insulation Resistance	≥100MΩ
Environment	Operation: -10 ℃~ +55 ℃ Storage : -25 ℃~ +70 ℃ Humidity: 5%~95%, non-condensing

Order Information

BCPM PMAC202	Order code		Description			
Main module	PMAC202-42	- M - S1 - S2 - S3	for multiple fixed CT strip For 25mA input CT For 50mA input CT For 100mA input CT			
Optional module	PMAC201V PMAC201K PMAC503L-250 PT100		HMI - 7" touch screen LCD DI module - Each DI module has 21 digital input Leakage Current CT for 250A Temperature sensor			
Accessory	MDR-20-24		24VDC Power supply			
	CT for - M (25mA Secondary)		50A CT Strip : Φ8.5mm , 50A/ 25mA, Class 0.5 21 unit CT in one Strip.			
CT Accessory (for other measure range,	CT for (25mA Sec		Independent Fixed CT: Φ9mm, 50A/25mA, Class 0.5 Split Core CT: Φ10mm, 50A/25mA, Class 1.0 Split Core CT: Φ16mm, 50A/25mA, Class 0.5			
please contact us)	CT for - S2 (50mA Secondary)		Split Core CT: Φ16mm, 100A/50mA, Class 0.5			
	CT for - S3 (100mA Secondary)		Split Core CT: Φ16mm, 100A/100mA, Class 0.5 Split Core CT: Φ24mm, 200A/100mA, Class 0.5			

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