

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 (lo-lo-limit, lo-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

Main circuit measuring:	Accuracy	Branch circuit measuring:	Accuracy
➤ Voltage-Ua, Ub, Uc	(0.5%)	➤ Current--I, Max. I,	(0.5%)
➤ Current--Ia, Ib, Ic, In, I unbal, Max. I	(0.5%)	➤ Active power- -P,	(1.0%)
➤ Active power- Pa, Pb, Pc, ΣP	(1.0%)	➤ Reactive power--Q,	(1.0%)
➤ Reactive power – Qa, Qb, Qc, ΣQ	(2.0%)	➤ Power factor-- PF	(1.0%)
➤ Power factor – PFa, PFb, PFC, ΣPF	(1.0%)	➤ Active energy--kWh,	(1.0%)
➤ Frequency – F	($\pm 0.01\text{Hz}$)	➤ Reactive energy--kvarh,	(2.0%)
➤ Active energy – kWh	(1.0%)	➤ Demand (for I, P)and Max. demand	
➤ Reactive energy – kvarh	(2.0%)	➤ THD for I	
➤ Demand (for 3I, 3P, Ptot) and Max. demand			
➤ THD for U, I	(2~31 st)		
➤ Leakage current (optional)	(0.5%)		
➤ Temperature (optional)	(0~120°C)		

PMAC202 & Accessories

Unit: mm

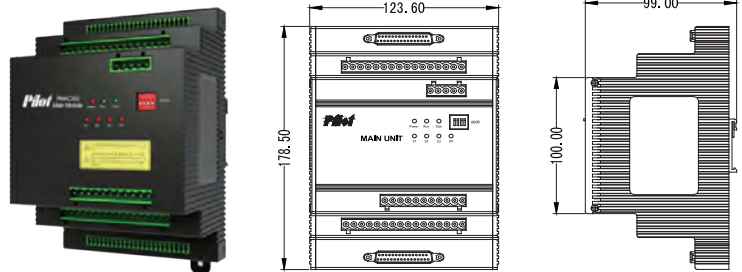
Main Module: Monitoring up to 42 branch circuits

PMAC202-M (For multiple fixed CT strip)

PMAC202-S1 (For 25mA input CT)

PMAC202-S2 (For 50mA input CT)

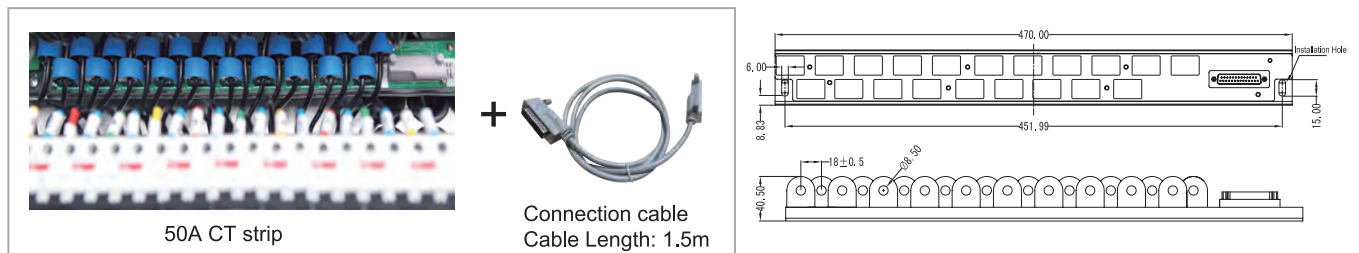
PMAC202-S3 (For 100mA input CT)



CT module:

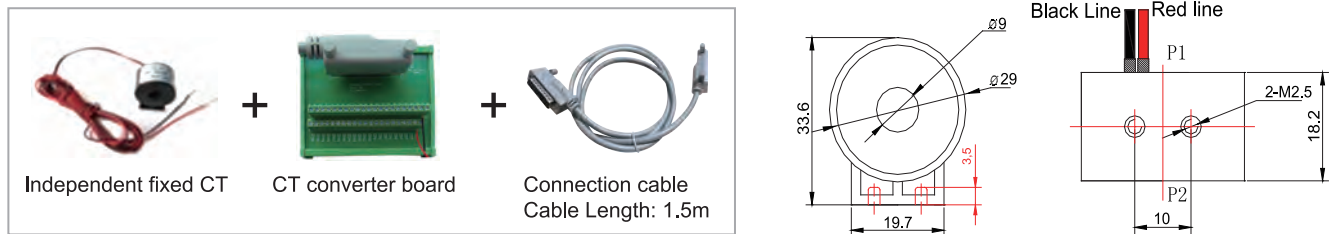
1) **Multiple fixed CT strip:** Multiple fixed CT strip, rated current 50A/ 25mA, Each CT strip has 21 fixed CTs, accuracy: class 0.5

Unit: mm



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

Unit: mm

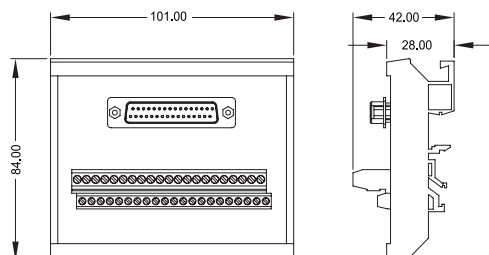
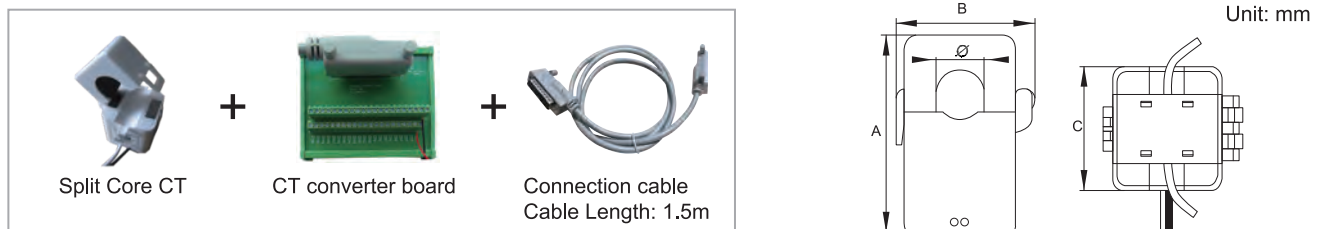


3) **Split Core CTs:** **Rated Current: 50A/ 25mA.** Diameter: 10mm or 16mm (Optional). Standard CT cable length: 2m.

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



Dimensions (mm/ inch)			
Ø	A	B	C
10.0 (0.39)	41.5 (1.63)	30.0 (1.18)	26.5 (1.04)
16.0 (0.63)	53.0 (2.09)	36.0 (1.42)	30.5 (1.20)

Technical Specification

Incoming circuit	1 circuit, three phase 220V/380V ac	Demand	Demand Interval: 15 mins Slip interval: 1 min.
Outgoing circuit	Max. up to 42 circuit per unit	Communication	RS485 port Baud rate: 2400, 4800, 9600, 19200, 38400 (optional)
Power supply	24V DC , range: 18~30V DC	DI module	Incoming circuit: Dry contact Outgoing circuit: wet contact, 220Vac Range: 70%~120% or Dry contact
MTBF	≥50000h	Relay output capacity	250Vac/5A or 30Vdc/5A
Service Life	10 years	IP index	Main Module: IP20 HMI (Front board): IP65
Rated Voltage	220V/380V ac Range: 10%~120%, Accuracy: 0.5%	Insulation Resistance	≥100MΩ
Rated incoming circuit current	5A, Range: 1%~120%, Accuracy: 0.5%	Environment	Operation: -10℃~ +55℃ Storage : -25℃~ +70℃ Humidity: 5%~95%, non-condensing
Rated outgoing circuit current	CT Strip: 50A/25mA (Max. 75A), Accuracy:0.5% Independent CT: 50A/25mA(Max.75A), Accuracy: 1.0% or 0.5% Split core CT: 50A(75A), 100A, 200A, Accuracy: 0.5%		
Rated Frequency	50Hz, Range: 45~65Hz, ±0.01Hz		

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 Accessory (for other measure range, please contact us)	CT for - M (25mA Secondary)		50A CT Strip : Φ8.5mm , 50A/ 25mA, Class 0.5 21 unit CT in one Strip.
	CT for - S1 (25mA Secondary)		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
	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

Pilot® ZHUHAI PILOT TECHNOLOGY CO., LTD.
PILOT (HENGQIN)CO.,LTD

Add: No. 15, Keji 6 Road, Chuangxin Haian, Tangjia Hi-tech Zone, Zhuhai, Guangdong, China

Post Code: 519085 Tel: +86 756 3629687/ 3629673

Fax: +86 756 3629600/ 3629700

Email: overseamarket@pmac.com.cn

http://en.pmac.com.cn



Your representative