

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
➤ Voltage - Ua, Ub, Uc, Un	(0.5%)
➤ Current - Ia, Ib, Ic, In, I unbal, Max. I	(0.5%)
➤ Active power - Pa, Pb, Pc, ΣP	(1.0%)
➤ Reactive power - Qa, Qb, Qc, ΣQ	(2.0%)
➤ Power factor - PFa, PFb, PFc, ΣPF	(1.0%)
➤ Frequency - F	(±0.01Hz)
➤ Active energy - kWh	(1.0%)
➤ Reactive energy - kvarh	(2.0%)
➤ 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)

Branch circuit measuring:

	Accuracy
➤ Current - I, Max. I,	(0.5%)
➤ Active power - P,	(1.0%)
➤ Reactive power - Q,	(1.0%)
➤ Power factor - PF	(1.0%)
➤ Active energy - kWh,	(1.0%)
➤ Reactive energy - kvarh,	(2.0%)
➤ Demand (for I, P) and Max. demand(for I,P)	
➤ THD for I	

PMAC202 & Accessories:

Unit: mm

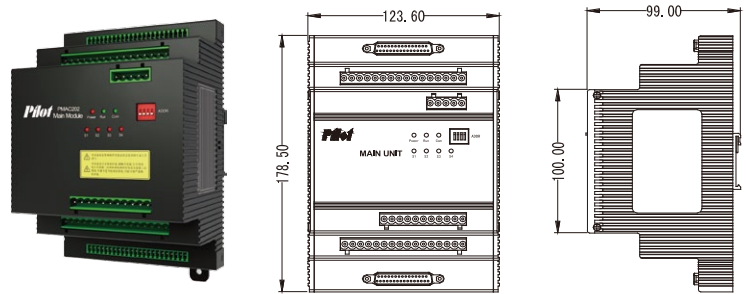
Main Module : Monitoring 21 or 42 branch circuits

PMAC202-M (For multiple fixed CT strip)

PMAC202-S1 (For 25mA input CT)

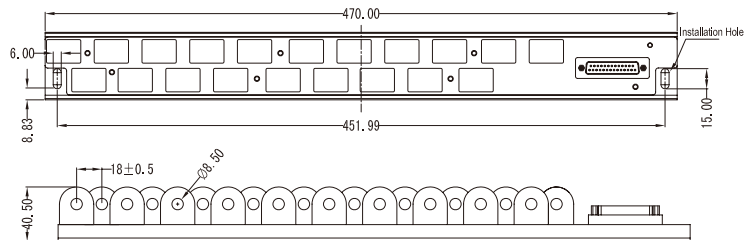
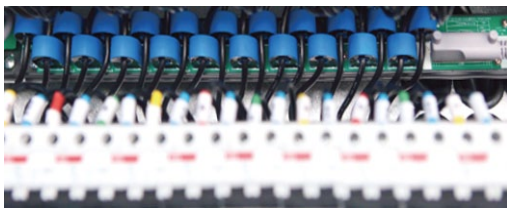
PMAC202-S2 (For 50mA input CT)

PMAC202-S3 (For 100mA input CT)

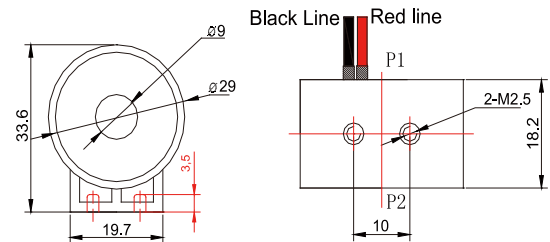
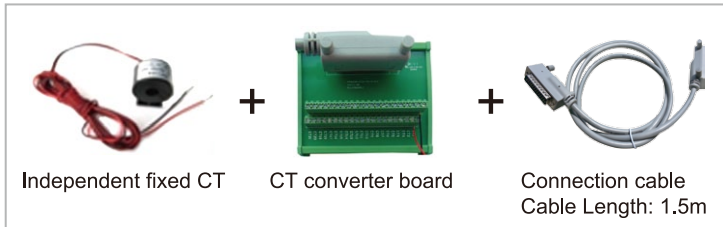


CT module:

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



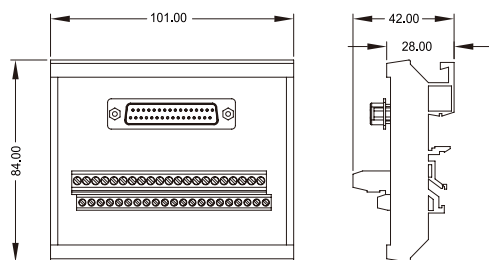
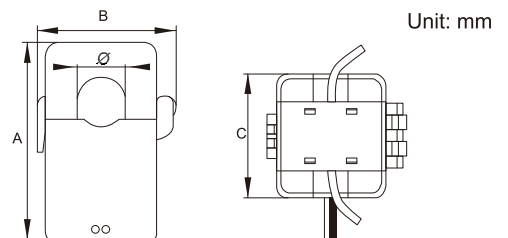
2) **Independent fixed CT:** Rated current 50A/ 25mA, standard CT cable length : 2.5m, accuracy : class 0.5 Unit: mm



3) **Split core CTs:** Rated current: 50A/ 25mA, diameter: 10mm or 16mm (Optional), standard CT cable length: 2m, accuracy : class 0.5

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)

PMAC202 AC Branch Circuit Power Meter

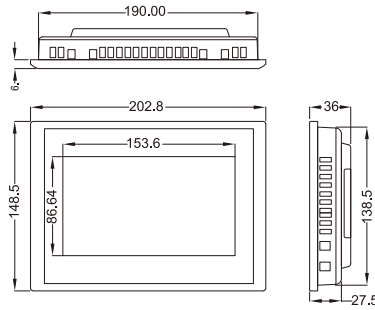
Optional devices:

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

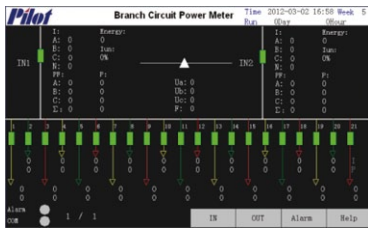
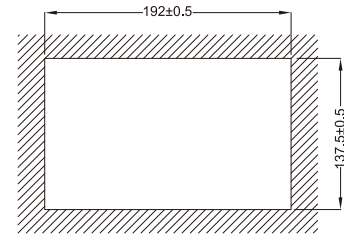
Resolution ratio: 800×480



PMAC201V



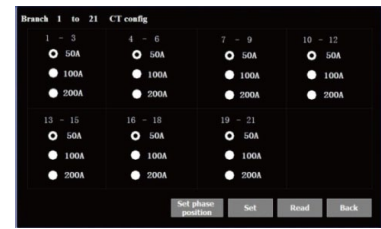
Unit: mm



Circuit diagram



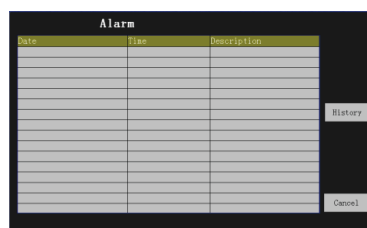
Real time measurement



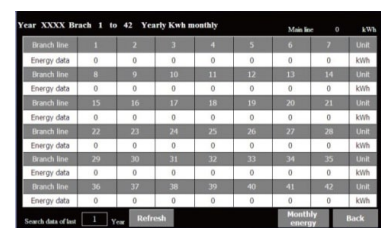
1/3 Phase adjustment



Parameter and Alarm Setting



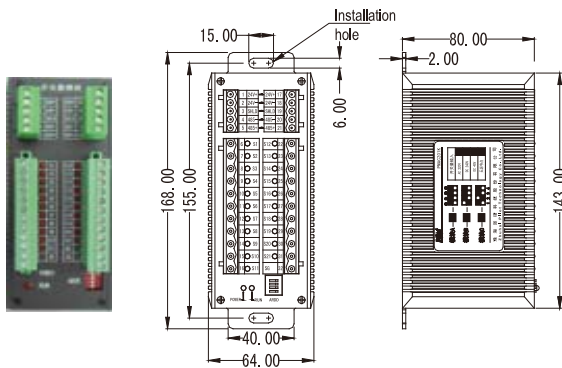
History and Alarm record



History Energy Record

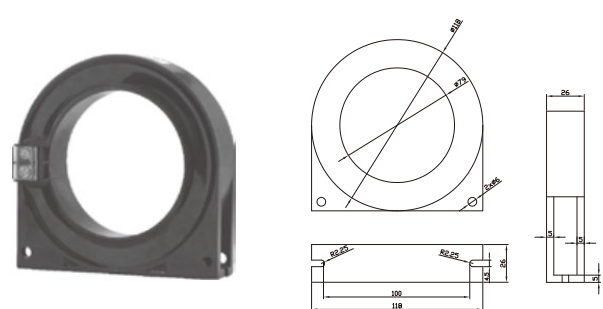
2) DI module: Each DI module has 21 digital input

Unit: mm



3) Leakage Current CT Module

Unit: mm



PMAC503L-250

4) Temperature Sensor

Unit: mm



PT100

