

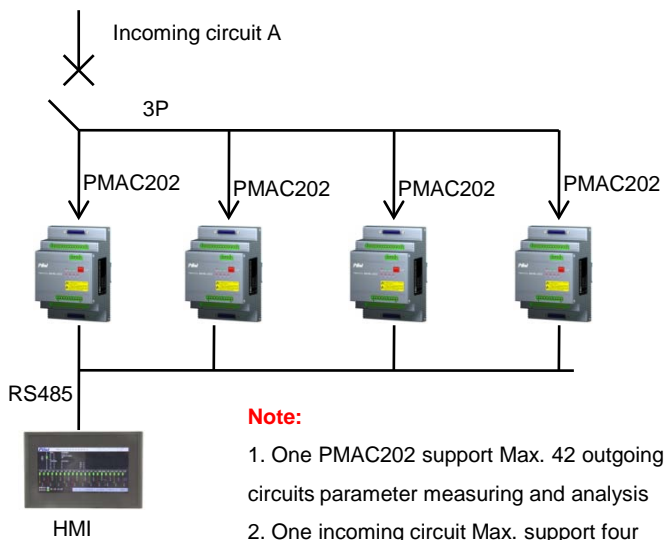
## Application

1. Load management
2. Data Center
3. Telecommunication



## Typical Connection

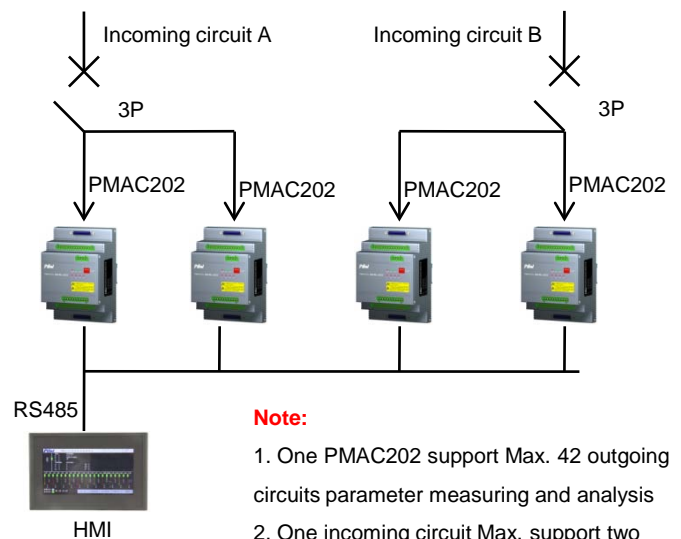
### For One Incoming Circuit



**Note:**

1. One PMAC202 support Max. 42 outgoing circuits parameter measuring and analysis
2. One incoming circuit Max. support four PMAC202, which means Max. 168 outgoing circuits

### For Two Independent Incoming Circuit



**Note:**

1. One PMAC202 support Max. 42 outgoing circuits parameter measuring and analysis
2. One incoming circuit Max. support two PMAC202, which means Max. 84 outgoing circuits
3. Total supports 168 outgoing circuits

## Features:

- One incoming circuit and Max. 42 outgoing circuit electrical parameter measuring and analysis
- DI/DO: 4 status inputs, 2 relay outputs, neutral voltage(0~5V), one temperature measurement
- Measure incoming circuit 3 phase voltage and current, neutral current, neutral voltage
- Power load analysis monitoring and pre-alarm
- Event Log: Record Max. 5000 event
- Support RS485 modbus communication port.
- Multi-tariff energy (TOU); four tariffs, 8 time periods
- Current input: incoming 5A

## Basic Function:

- **Income circuit monitoring:**
  1. Voltage-U<sub>a</sub>, U<sub>b</sub>, U<sub>c</sub>;
  2. Current--I<sub>a</sub>, I<sub>b</sub>, I<sub>c</sub>, I<sub>n</sub>, I unbal, Max. I
  3. Active power-- P<sub>a</sub>, P<sub>b</sub>, P<sub>c</sub>,  $\Sigma P$
  4. Reactive power -- Q<sub>a</sub>, Q<sub>b</sub>, Q<sub>c</sub>,  $\Sigma Q$
  5. Power factor -- PF
  6. Frequency -- F
  7. Active energy -- kWh
  8. Reactive energy -- kvarh
  9. Demand and Max. record for I
  10. THD for U, I
  11. Four status, two relay
- **Outgoing circuit monitoring:**
  1. I, Max. I, P, Q, PF, kWh, kvarh,
  2. Demand and Max. record for I
  3. THD for I
  4. Status condition (Optional)

## Technical Specification:

Incoming circuit	1 circuit, three phase 220V/380V ac	Active power & active energy	Accuracy: Incoming circuit : 1%, Outgoing circuit: 1% <b>Note:</b> CT accuracy require class 0.5
Outgoing circuit	21 or 42 (Optional)	Reactive power & reactive energy	2%
Power supply	24V DC , range: 18~30V DC	Communication	RS485 port Baud rate: 2400, 4800, 9600, 19200, 38400 (optional)
MTBF	≥50000h	Status input (Wet contact)	220V ac, 40%~120%
Service Life	10 years	Status input (Dry contact)	External provides 30V dc
Rated Voltage	220V/380V ac Range: 10%~150%, Accuracy: 0.5%	Relay output capacity	220Vac/5A or 30Vdc/5A
Rated incoming circuit current	5A, Range: 1%~120%, Accuracy: 0.5%	IP index	IP20, HMI (Front board) IP65
Rated outgoing circuit current	<b>CT strip:</b> 50A ac, Range: 1%~100%, Accuracy:0.5% <b>Independent CT:</b> 50A, 100A, 200A, Range: 1%~100%, Accuracy: 0.5%	Environment	Operation: -10℃ ~ +55℃ Storage : -25℃ ~ +70℃ Humidity: 5%~95%, non-condensing
Rated Frequency	50Hz, Range: 45~65Hz, ±0.01Hz		
Power Factor	Accuracy: Incoming circuit : 1% Outgoing circuit: 1%		

## PMAC202 family:



HMI



Main Module



220V(L-N) AC to 24V DC Power supply converter



Status input



Multiple fixed CT strip



CT converter



Independent CT

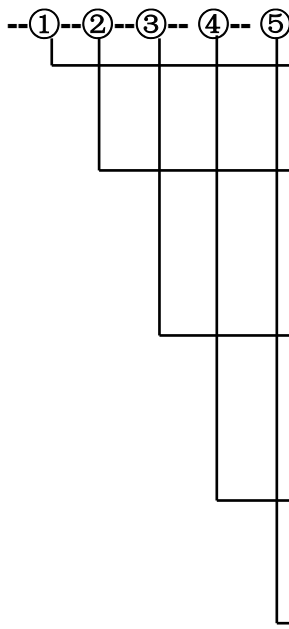


Cable line

For S1, S2, S3

## Order Information

PMAC202

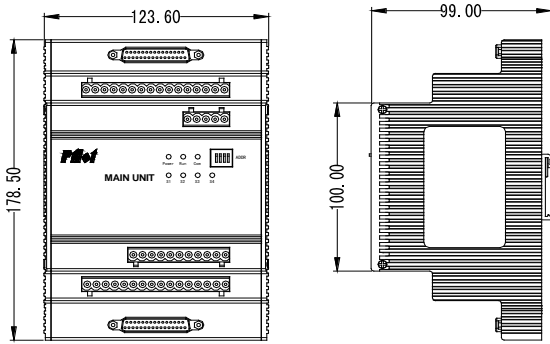


<b>A</b>	With HMI
<b>B</b>	Without HMI
<b>21</b>	<b>Monitoring 21 branches</b> 1 Multiple fixed CT strip (21 CTs)
<b>42</b>	<b>Monitoring 42 branches</b> 2 Multiple fixed CT strip (42 CTs)
<b>M</b>	Multiple fixed CT strip, Rated current 50A
<b>S1</b>	Independent CTs(Rated current 50A ) + CT converter
<b>S2</b>	Independent CTs(Rated current 100A) + CT converter
<b>S3</b>	Independent CTs(Rated current 200A) + CT converter
<b>T</b>	One temperature measurement, PT 100
<b>L</b>	One leakage current measurement. Rated Current 1A (Primary)
<b>TL</b>	One temperature + one leakage measurement
<b>W</b>	Outgoing status (Dry Contact)
<b>Y</b>	Outgoing status (Wet contact)

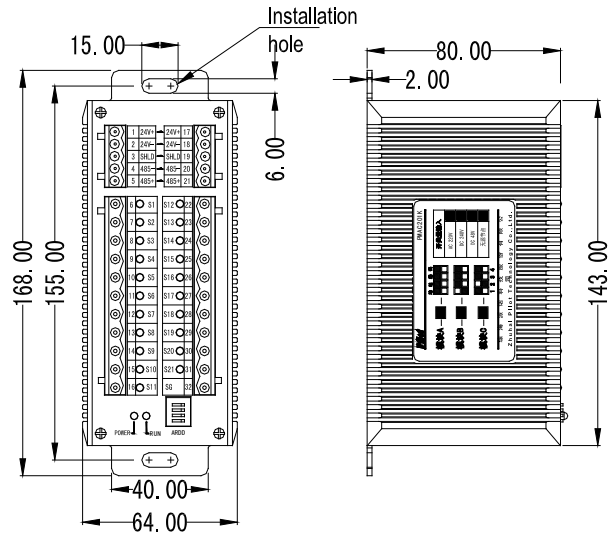
## Dimension:

Unit: mm

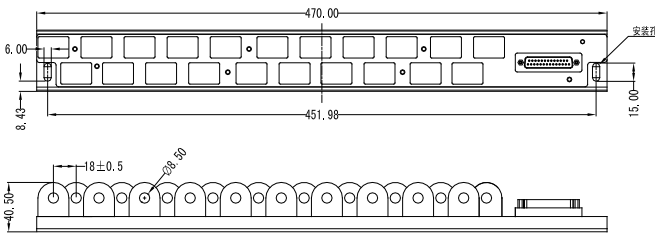
### Main Module :



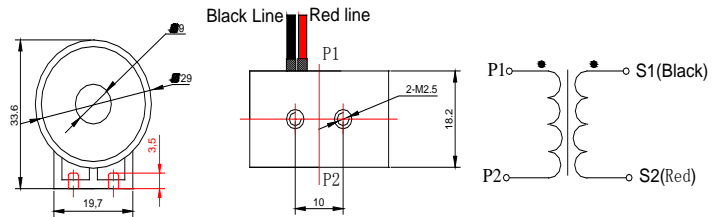
### Status input:



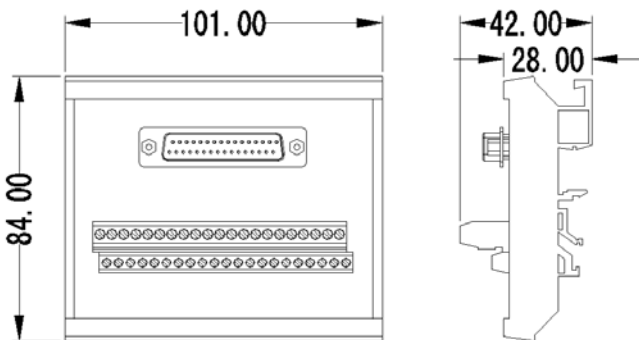
### Multiple fixed CT strip:



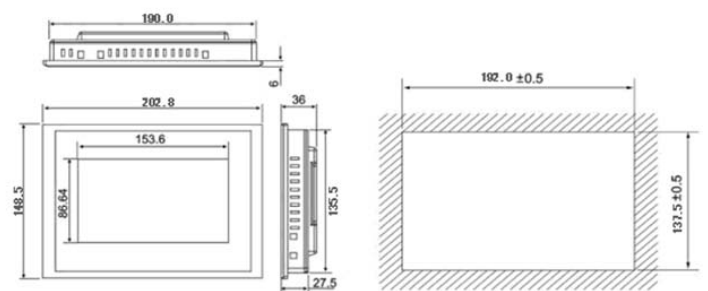
### Independent CT:



### CT converter:



### HMI:



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Your representative

