Acrel

Multifunction Energy Meter

Accuracy Class: 0.2 S

- AC 100V、110V、400V、690V
- 3×1（6）A，3×10A
- Full Electrical Parameters Measuring（U、I、P、Q、S、PF、F）
- Bidirectional kWh&kVarh (positive&negative); Pulse output
- 8DI2DO(MD82)
- Data Frozen Function
- Multi-rate/tariff (history log 12 months)
- RS485/Ethernet/PROFIBUS-DP Communication

DIMENSION

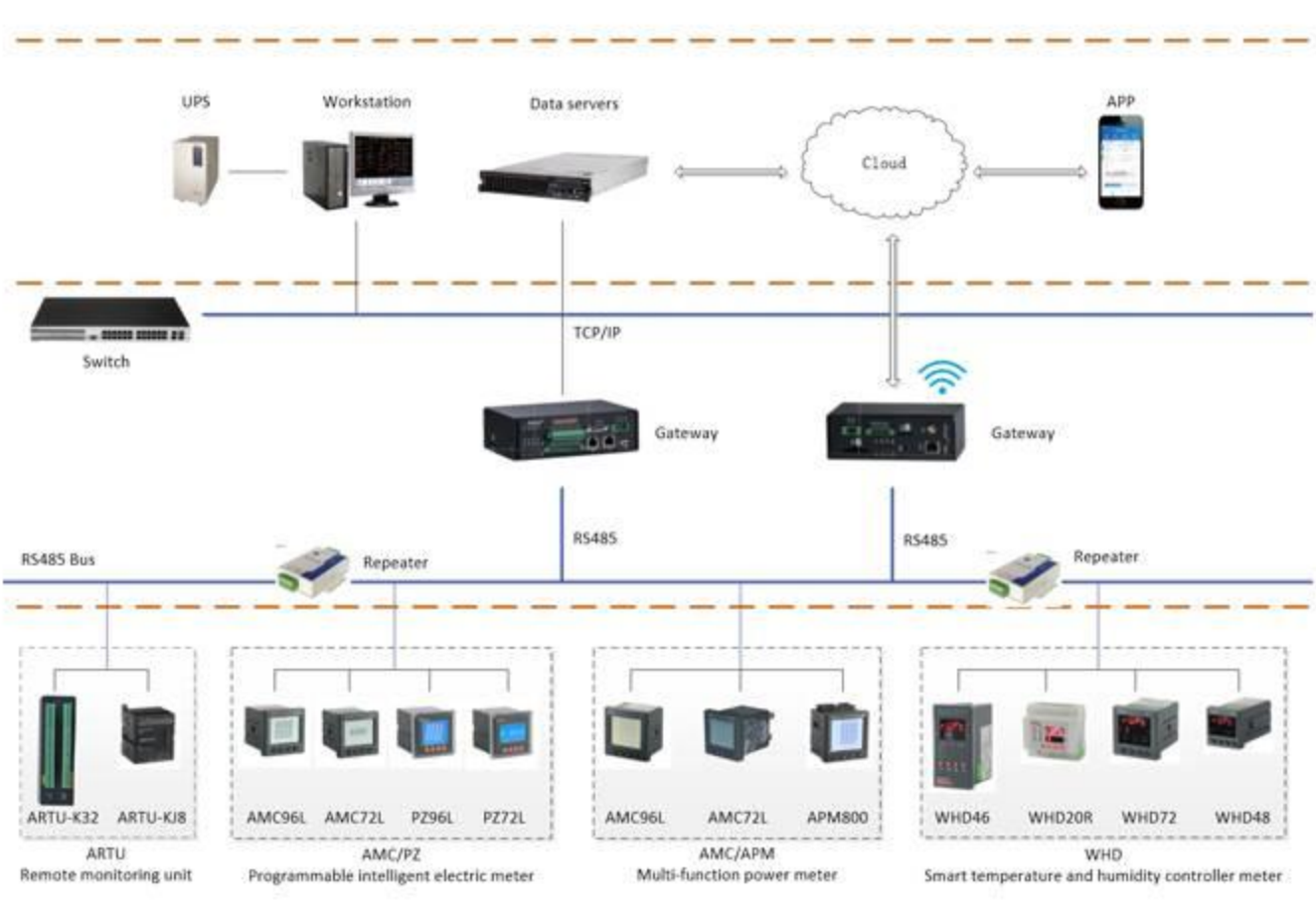
TECHNICAL PARAMETER

PRODUCT SELECTION

Shape&Dimension	Model	Function
 Frame: 96mm×96mm Cut-out: 92mm×92mm Model into Deep: 65mm Main body into Deep: 23mm	APM800 (Class 0.5S)	3-phase (I, U, kW, kVar, kWh, kVarh, Hz, cosΦ); zero-sequence current In; 4-quadrant energy; real-time&max demand; extremum of this month and last month; current&voltage unbalance; load current histogram; 66 types of alarm and 16 pcs of SOE; support SD card expansion; 2DI+DO; RS485/MODBUS; LCD display
	APM801 (Class 0.2S)	3-phase (I, U, kW, kVar, kWh, kVarh, Hz, cosΦ); zero-sequence current In; 4-quadrant energy; real-time&max demand; extremum of this month and last month; current&voltage unbalance; load current histogram; 66 types of alarm and 16 pcs of SOE; support SD card expansion; 2DI+DO; RS485/MODBUS; LCD display
	APM810 (Class 0.5S)	3-phase (I, U, kW, kVar, kWh, kVarh, Hz, cosΦ); zero-sequence current In; 4-quadrant energy; real-time&max demand; extremum of this month and last month; current&voltage unbalance; load current histogram; 66 types of alarm and 16 pcs of SOE; support SD card expansion; 2DI+DO; RS485/MODBUS; 2~63st harmonic; LCD display
	APM810 (Class 0.2S)	3-phase (I, U, kW, kVar, kWh, kVarh, Hz, cosΦ); average; extremum; fundamental current; fundamental voltage; demand; mult-rate/tariff; current&voltage unbalance; 4-quadrant energy; multi-rate energy; THD; odd&even harmonic; vector; alarm record; SOE; wave record; transient record; 2DI+2DO; RS485/MODBUS (support data frozen); digits LCD display

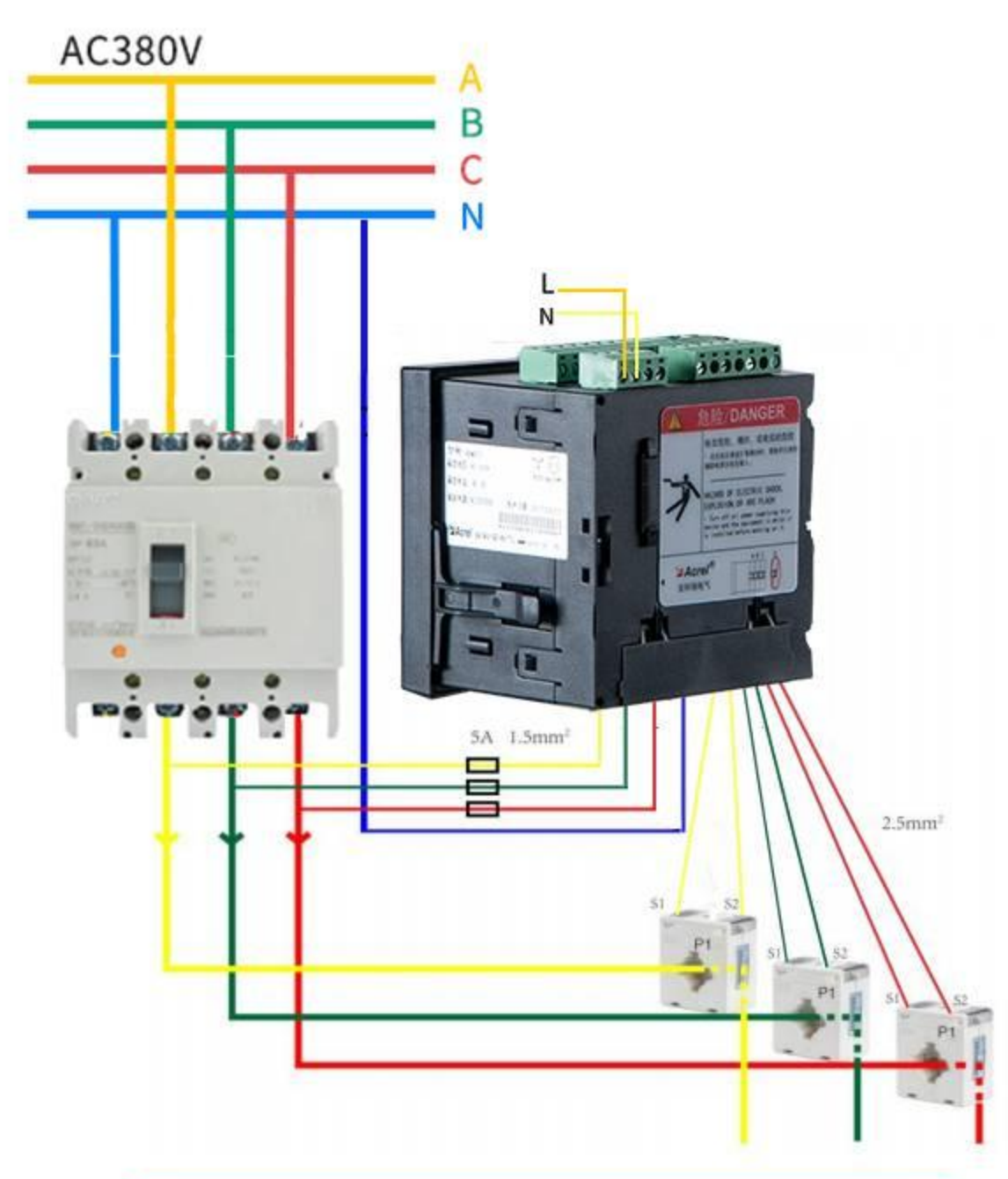
Optional Function:	APM800	APM801	APM810	APM830
	1. Multi-rate (F)	1. Multi-rate (F)	1. Multi-rate (F)	1.8DI+2DO (MD82)
	2.8DI+2DO (MD82)	2.8DI+2DO (MD82)	2.8DI+2DO (MD82)	2.SD Card (MLOG)
	3.SD Card (MLOG)	3.SD Card (MLOG)	3.SD Card (MLOG)	3.8AI+4AO (MA84)
	4.8AI+4AO (MA84)	4.8AI+4AO (MA84)	4.8AI+4AO (MA84)	4.RS485 (MCM)
	5.RS485 (MCM)	5.RS485 (MCM)	5.RS485 (MCM)	5.Ethernet (MCE)
	6.Ethernet (MCE)	6.Ethernet (MCE)	6.Ethernet (MCE)	6.Profibus-DP(MCP)
	7.Profibus-DP(MCP)	7.Profibus-DP(MCP)	7.Profibus-DP(MCP)	

APPLICATION TOPOLOGY

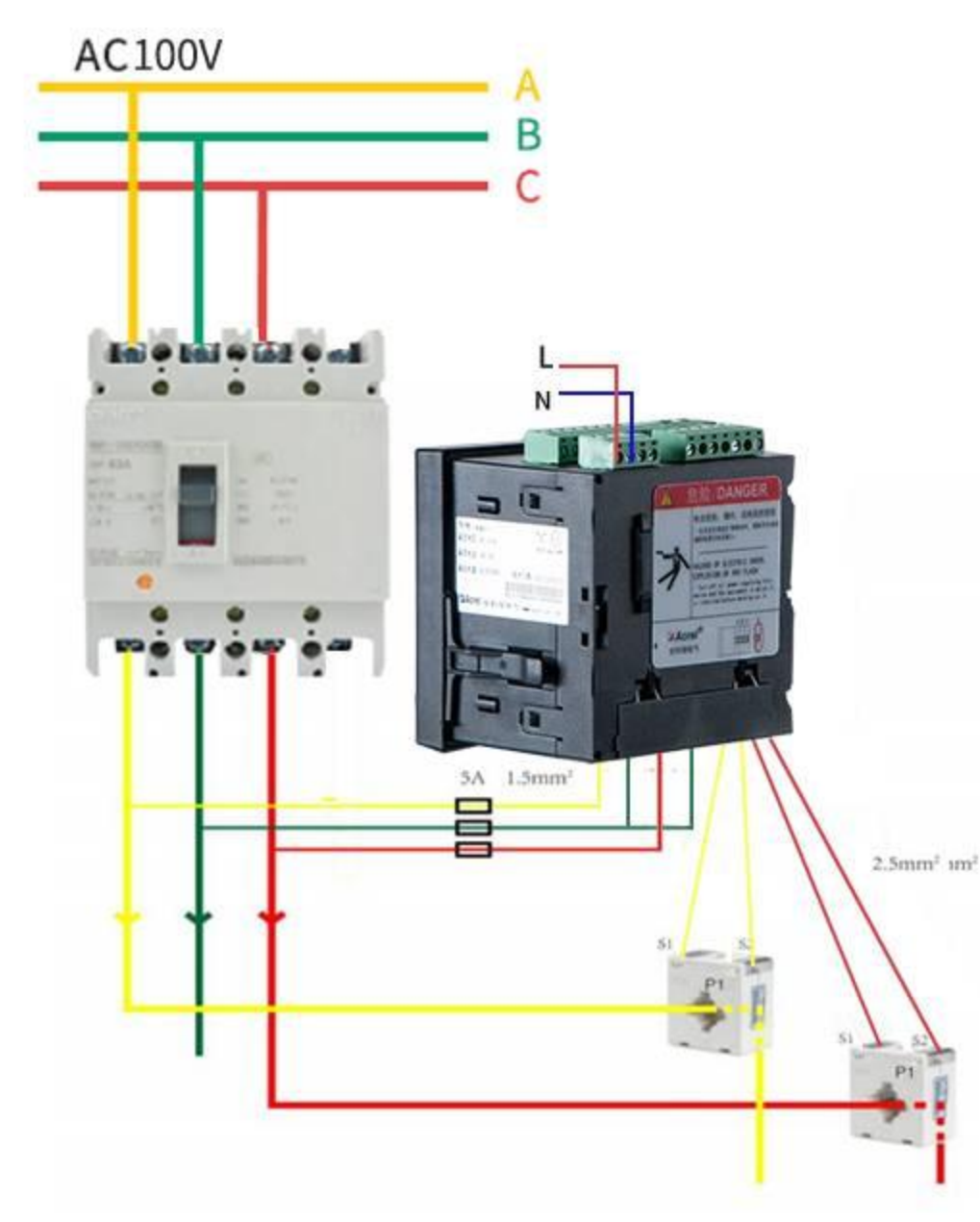


WIRING

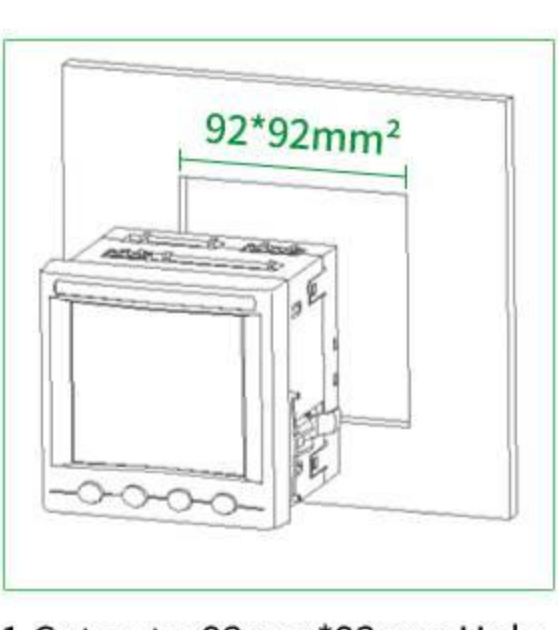
Low-voltage 3-phase 4-wire



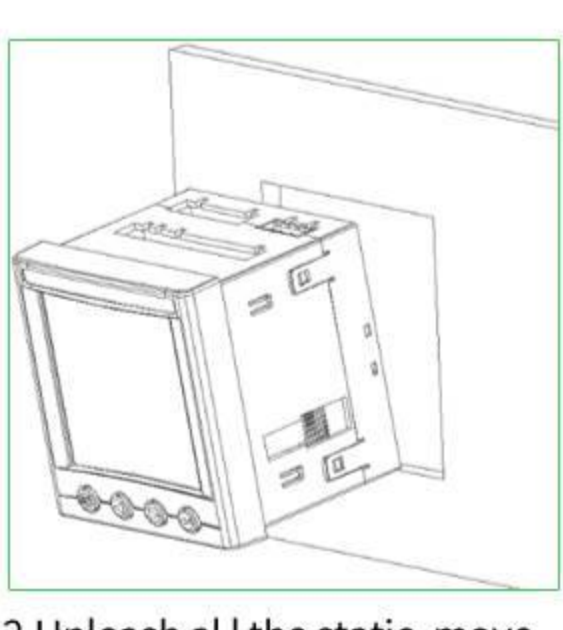
High-voltage 3-phase 3-wire (2PT&2CT)



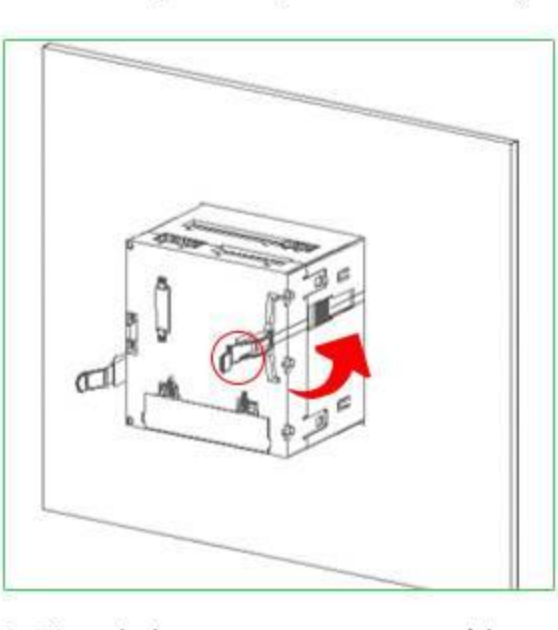
INSTALLATION



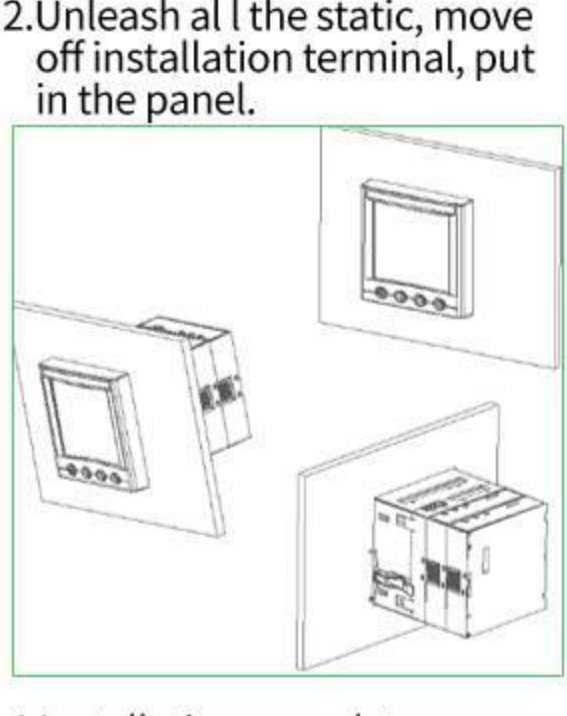
1.Cut out a 92mm*92mm Hole on the panel. (If not existed)



2.Unleash al l the static, move off installation terminal, put in the panel.



3.Fixed the meter on panel by using the incidental brackets with buckle.



4.Installation complete.

CERTIFICATE

COMMON FAQ

1

Q What's the storage capacity, storage format and data storage interval of SD card?

A The meter is equiped with standard 4G SD card while saving the data of electrical parameter, energy, event, SOE, alarm. Also, the setting of storage interval could be changed. (1 min interval for electrical parameter and 1 hour interval for energy)

2

Q How should I select the expanded modules of APM8xx?

A Our users can select 3 of the optional modules at will even repeatly except for communication module. Also, the order of module installation could be random.

3

Q The features of APM8xx?

A Except for wave record and SD card storage function, 0.2S measuring accuracy can also be a option. Besides, APM8xx can serve as reverse display meter (which means 3-phase electrical parameters measuring plus 8-channel reverse display) Also, users can measure the data through browser by using Ethernet auto WEB.

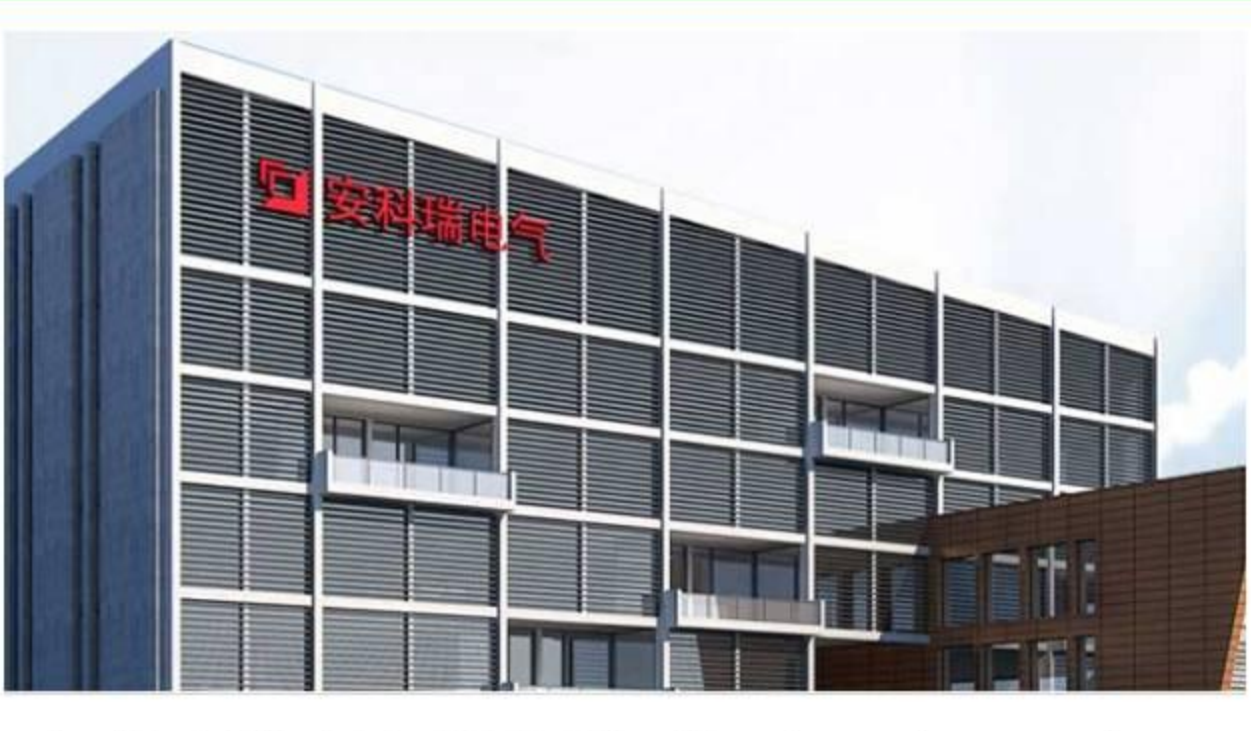
4

Q As for the auxiliary power supply of APM8xx?

A AC/DC 85~265V or 115~415V is both optional. Also, 380V line voltage can also serve as power supply.

APPLICATION SCENARIO

ABOUT ACREL



Acrel Co., Ltd. [Stock Code : 300286. SZ] is a high-tech enterprise concentrating on research, production, sales and services. It mainly provides systemic solutions of energy efficiency management and electrical safety for users. 'Acrel' is equipped with the complete production lines from cloud platform software to sensors. Until now, it has more than 8000 sets systemic solutions used in China to help users to realize energy visual management ,supply energy data services and improve electrical efficiency and safety and service for power system users.

PRODUCTION LINE