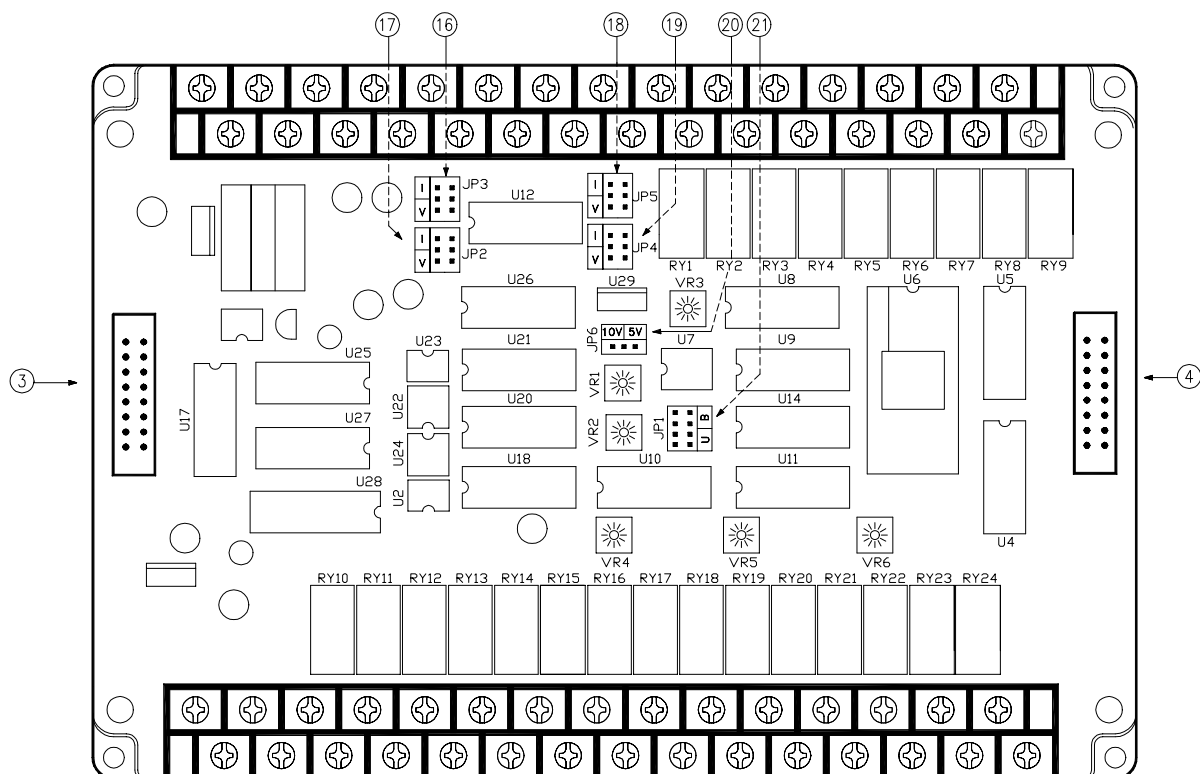
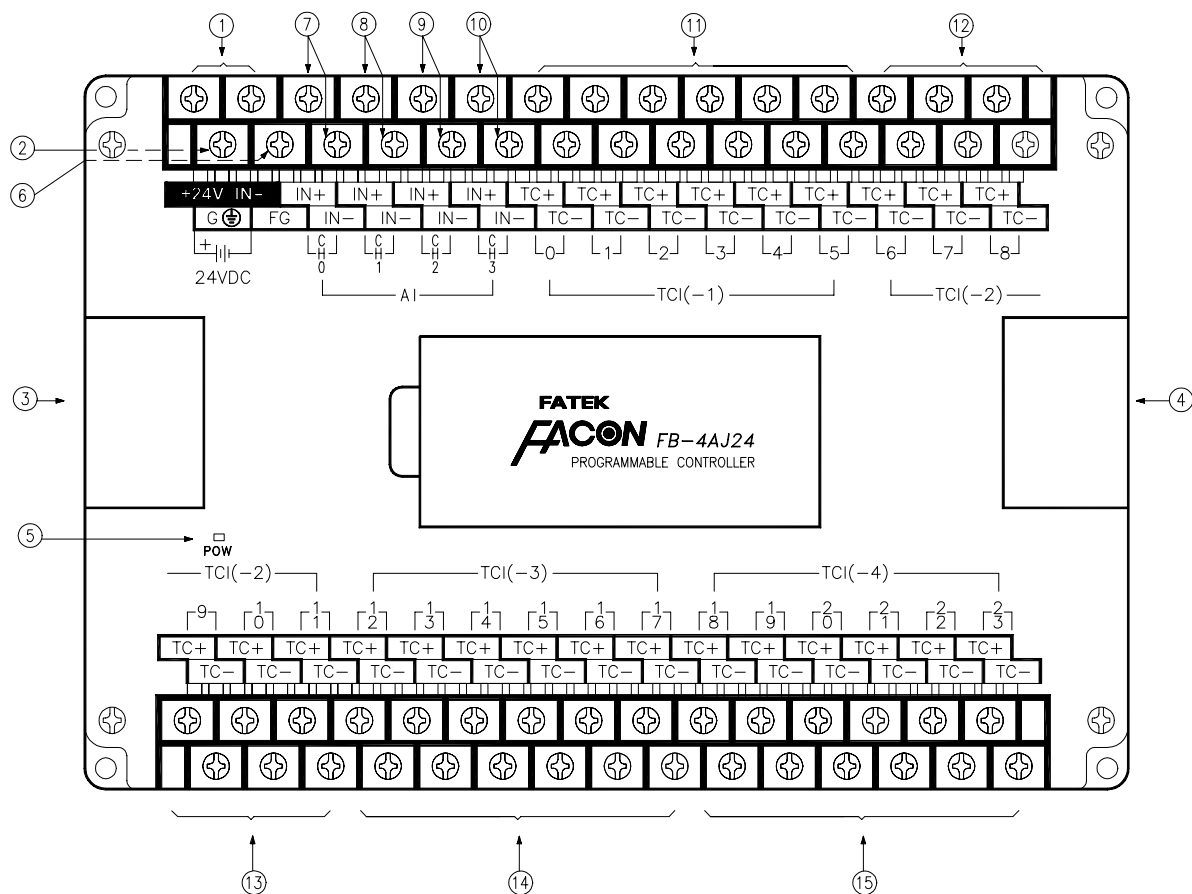
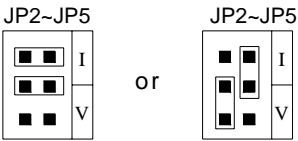
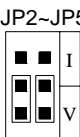
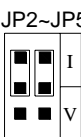


20.3.2 The outlook of FB-4AJ(K)xx and top view of PC Board





- ① : External power input terminal –
Power supply for analogue circuit of FB-4AJ(K)xx module, supply voltage is 24VDC±20% .
- ② : Protection ground terminal –
To connect to the safety earth ground of the power system.
- ③ : Expansion input cable –
It must be connected to the front of the expansion unit or main unit.
- ④ : Expansion output connector –
Provide the connection of next expansion unit.
- ⑤ : Power indicator –
Indicating the status of the external power input and the power supply for analogue circuit of this module.
- ⑥ : Framing ground terminal –
To connect to the shielding of analog input wiring.
- ⑦ : 1st analog input terminal (CH0) –
- ⑧ : 2nd analog input terminal (CH1) –
- ⑨ : 3rd analog input terminal (CH2) –
- ⑩ : 4th analog input terminal (CH3) –
- ⑪ : 1st group of thermocouple input terminals (TC0~TC5) – To connect to corresponding thermocouple
- ⑫~⑬ : 2nd group of thermocouple input terminals (TC6~TC11) – To connect to corresponding thermocouple
- ⑭ : 3rd group of thermocouple input terminals (TC12~TC17) – To connect to corresponding thermocouple
(only for FB-4AJ(K)18 or FB-4AJ(K)24)
- ⑮ : 4th group of thermocouple input terminals (TC18~TC23) – To connect to corresponding thermocouple
(only for FB-4AJ(K)24)
- ⑯~⑲ : Selection jumpers for voltage(V)/current (I) input of analog inputs CH0~CH3
- The four analog inputs of FB-4AJ(K)xx can be selected individually to be voltage or current input (JP2 for CH0、JP3 for CH1、JP4 for CH2、JP5 for CH3). The selection and insertion of jumper must be identical in direction to the printed text V and I next to it and should be vertically inserted into the position of V or I in pairs.

This kind of module can be used alone and can't be installed together with other analog input module; therefore it has these 4 points of analog input at the most.

○		×
Voltage (V)	Current (I)	 <p>Either jumpers vertically placed or not inserted in pairs are both incorrect.</p>
		

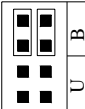
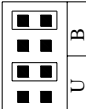
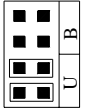
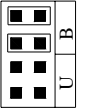
⑳ : Selection jumper of input span 10V/5V

The selection to define the input span of all analog inputs of this module. If setting the jumper at 10V position, it represents the measurement range of 10V/20mA/1000°C; if setting the jumper at 5V position, it represents the measurement range of 5V/10mA/500°C.

Jumper setting			<div> <div>10V 5V</div> <div>JP6 </div> </div>	<div> <div>10V 5V</div> <div>JP6 </div> </div>
Analog input	Unipolar (U)	Voltage (V)	0V~10V	0V~5V
		Current (I)	0mA~20mA	0mA~10mA
	Bipolar (B)	Voltage (V)	-10V~10V	-5V~5V
		Current (I)	-20mA~20mA	-10mA~10mA
Temperature span	Unipolar (U)			0°C~500°C
	Bipolar (B)			-500°C~500°C

㉑ : Unipolar (U)／Bipolar (B) selection

The selection to define the input polarity of all analog inputs of this module. These two jumpers must be horizontally placed in pairs to position B or U, according to the marked text direction of B and U beside the jumper.

○		×
Unipolar (U)	Bipolar (B)	<div> <div>JP1 </div> <div>or</div> <div>JP1 </div> </div> <p>Either jumpers vertically placed or not inserted in pairs are both incorrect.</p>
<div>JP1 </div>	<div>JP1 </div>	