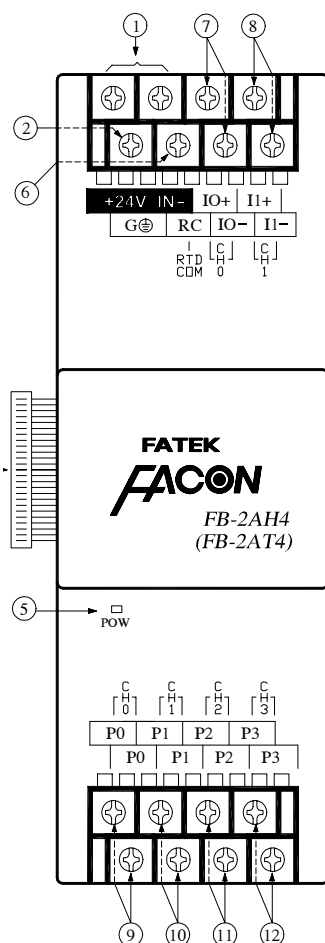
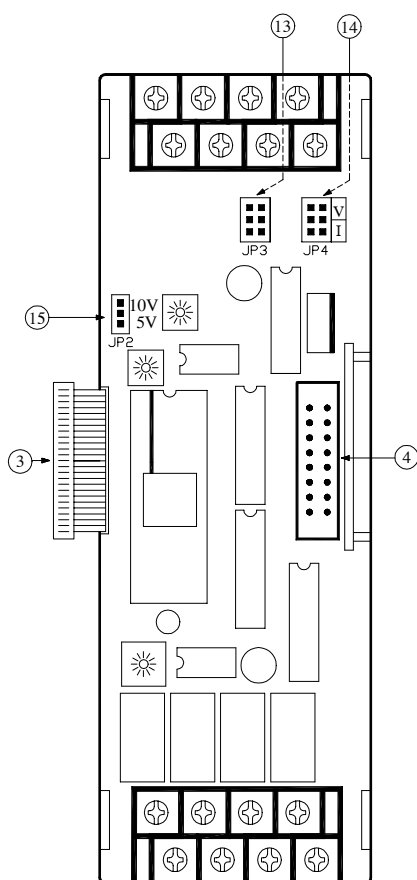


### 20.3.3 The outlook of FB-2AH(T)4 and top view of PC-board



A : Outlook of top view



B : PC-board top view (uncovered)

- ① : External power input terminal –  
Power supply for analogue circuit of FB-2AH(T)4 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 expansion unit or main unit.
- ④ : Expansion output connector –  
Provide the connection for next expansion unit.
- ⑤ : Power indicator –  
Indicating the status of external power input and power supply of FB-2AH(T)4 analogue circuit.
- ⑥ : Common terminal for 3-wires RTD input –  
To connect to the common wire (in general ,the color is red) of each 3-wires RTD input.
- ⑦ : Analog input terminal for AI0 –  
To connect to the 1<sup>st</sup> general purpose analog input.
- ⑧ : Analog input terminal for AI1 –  
To connect to the 2<sup>nd</sup> general purpose analog input.
- ⑨ : Input terminal for 1<sup>st</sup> RTD input –  
To connect to the signal wires (in general, the color is white) of 1<sup>st</sup> 3-wires RTD input.
- ⑩ : Input terminal for 2<sup>nd</sup> RTD input –  
To connect to the signal wires (in general, the color is white) of 2<sup>nd</sup> 3-wires RTD input

⑪ : Input terminal for 3<sup>rd</sup> RTD input –

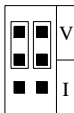
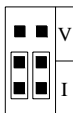
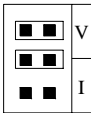
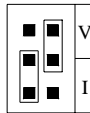
To connect to the signal wires (in general, the color is white) of 3<sup>rd</sup> 3-wires RTD input.

⑫ : Input terminal for 4<sup>th</sup> RTD input –

To connect to the signal wires (in general, the color is white) of 4<sup>th</sup> 3-wires RTD input.

⑬ ⑭ Selection jumpers of voltage(V)/current(I) input for AI0 (JP3) and AI1 (JP4)

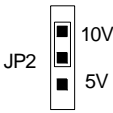

The jumper must be inserted vertically in pairs according to the V, I text direction (which is vertically printed in its direction) to position V or I as following illustration.

○		✕	
Voltage ( V )		Current ( I )	
JP3、JP4 	JP3、JP4 	JP3、JP4 	JP3、JP4 
Either jumpers horizontally placed or not inserted in pairs are both incorrect.			

⑮ : Selection jumper of input span 10V/5V

The selection to define the input span of all analog inputs of this module. The polarity of this module supports bipolar only. If setting the jumper at 10V position, it means the range of measurement is  $\pm 10V/\pm 20mA$  and the temperature range is  $-49.8^{\circ}C \sim 146.6^{\circ}C / -57.6^{\circ}F \sim 295.9^{\circ}F$  (DIN) or  $-48.9^{\circ}C \sim 143.9^{\circ}C / -56.0^{\circ}F \sim 291.0^{\circ}F$  (JIS) ; if setting the jumper at 5V position, it means the range of measurement is  $\pm 5V/\pm 10mA$  and the temperature range is  $-12.3^{\circ}C \sim 83.6^{\circ}C / 9.9^{\circ}F \sim 182.5^{\circ}F$  (DIN) or  $-12.0^{\circ}C \sim 82.1^{\circ}C / 10.4^{\circ}F \sim 179.8^{\circ}F$  (JIS)

Note : FB-2AH(T)4 is fixed at bipolar, without unipolar/bipolar setting!

Jumper setting			
Range			
Span of Analog Input	Voltage ( V )	-10V ~ 10V	
	Current ( I )	-20mA ~ 20mA	
Span of RTD Input	DIN	$-49.8^{\circ}C \sim 146.6^{\circ}C$ $-57.6^{\circ}F \sim 295.9^{\circ}F$	
	JIS	$-48.9^{\circ}C \sim 143.9^{\circ}C$ $-56.0^{\circ}F \sim 291.0^{\circ}F$	
		$-12.3^{\circ}C \sim 83.6^{\circ}C$ $9.9^{\circ}F \sim 182.5^{\circ}F$	
		$-12.0^{\circ}C \sim 82.1^{\circ}C$ $10.4^{\circ}F \sim 179.8^{\circ}F$	