How to modify the input of analog signal：

This series provide the free input of T/C and RTD ；
it doesn't need to modify the hardware except the analog input.

A. Analog input hardware modification ：

(Refer to S1~J2 on PC board)

INPUT	S1	S2	S3	S4	S5	S6	J2
T/C RTD	●	X	X	X	X	X	●
0~50mV	●	X	X	X	X	X	X
0~20mA	X	X	●	X	X	●	X
0~5V	X	●	X	X	●	X	X
0~10V	X	●	X	●	X	X	X

【●】：Short 【X】：Open

PCB:

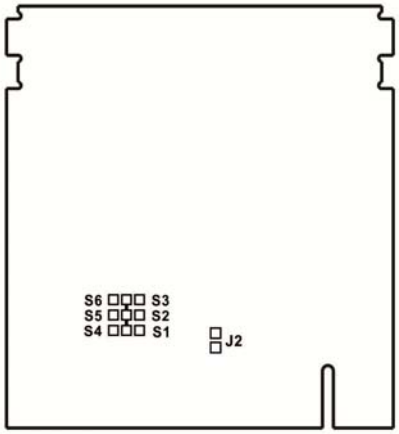
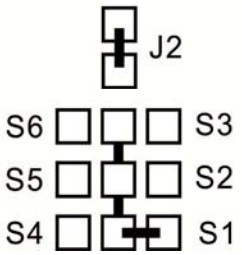
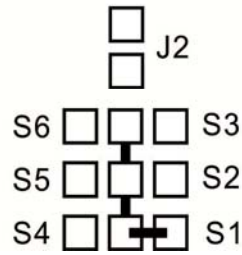


Diagram:

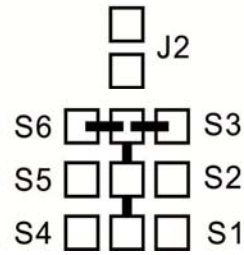
T/C RTD:



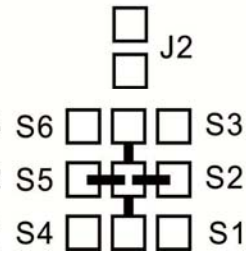
0~50mV:



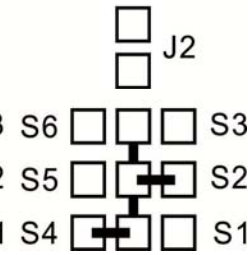
0~20mA:



0~5V:



0~10V:



B. Analog input software modification ：

1. Select ”AnX” in ”inP1” parameter .
2. Set ”LSPL” in ”input level” to lowest range .
3. Set ”USPL” in ”input level” to highest range .

C. Analog input calibration ：

1. Enter “AnL1 ”parameter in ”Input level” .
2. Provide signal for lowest range and wait for 3 sec then keep pressing ▼ key .
3. Enter “AnH1 ”parameter in ”Input level” .
4. Provide signal for highest range and wait for 3 sec then keep pressing ▼ key .
5. Return to PV/SV initial window and provide signal for lowest range again then check if PV equals to LSPL .
6. provide signal for highest range again then check if PV equals to USPL .
7. If it is not accurate after calibrating, please repeat the above procedures again .

Order information：

A. Hardware Modification Position (Refer to Appendix 1)：

1. **MC-2438**：K1 on 24C2 board.
2. **MC-2738**：K1 on 27C2 board.
3. **MC-2838**：K1 on 28C2 board.
4. **MC-2538**：K1 on 28C2 board.
5. **MC-2638**：K1 on 28C2 board.

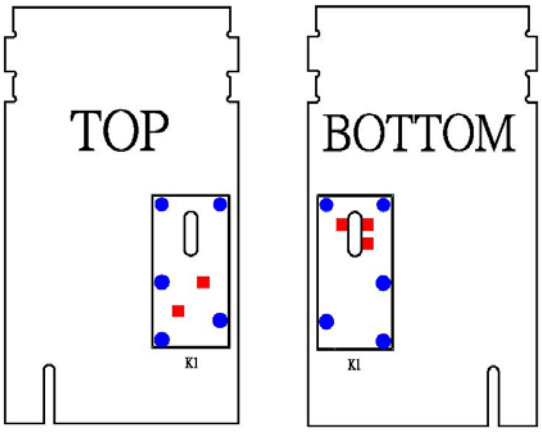
B. Software Setting：

1. **RELAY Output**：Place the RELAY following the above hardware modification position. Set parameter CYT1 → 15.
2. **PULSED Output**：Place the SSR Module (MC-V2) following the above hardware modification position. Set parameter CYT1 → 2.
3. **0-20mA Output**：Place the SCR Module (MC-mA3) following the above hardware modification position. Set Parameter CYT1 → 0, CL01 → 0 and CH01 → 960.
4. **4-20mA Output**：Place the SCR Module (MC-mA3) following the above hardware modification position. Set parameter CYT1 → 0, CL01 → 240 and CH01 → 960.
5. **0-5V Output**：Short J1 & J2 on SCR Module (MC-mA3) then place on the controller board following the above modification position. Set parameter CYT1 → 0, CL01 → 0 and CH01 → 965.
6. **1-5V Output**：Short J1 & J2 on SCR Module (MC-mA3) then place on the controller board following the above modification position. Set parameter CYT1 → 0, CL01 → 235 and CH01 → 965.
7. **0-10V Output**：Short J1 on SCR Module (MC-mA3) then place on the controller board following the above modification position. Set parameter CYT1 → 0, CL01 → 0 and CH01 → 965.
8. **2-10V Output**：Short J1 on SCR Module (MC-mA3) then place on the controller board following the above modification position. Set parameter CYT1 → 0, CL01 → 235 and CH01 → 965.

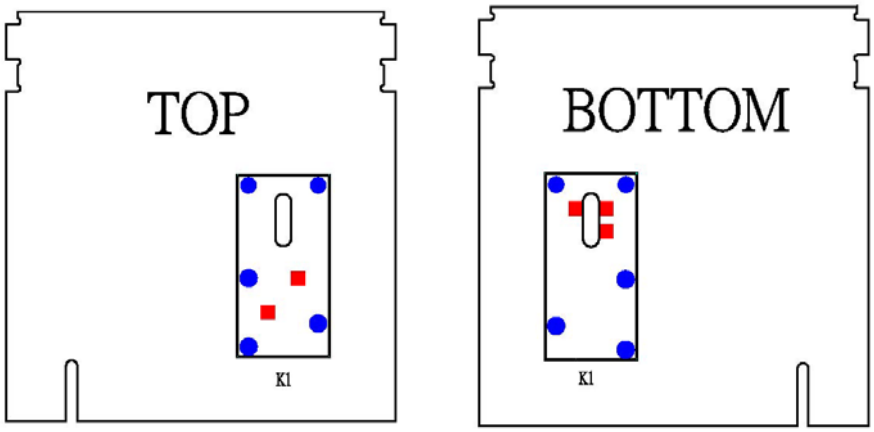
Appendix 1：

RELAY：Welding pads in blue

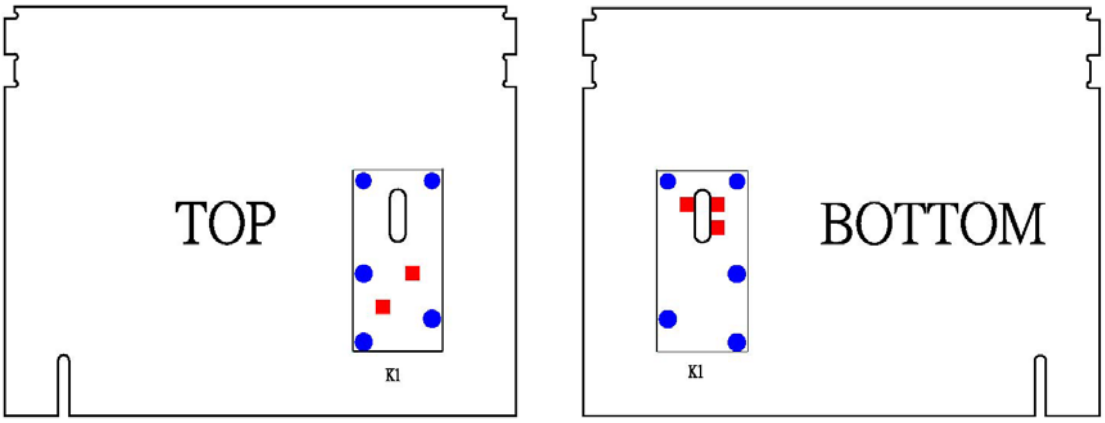
SSR & SCR：Welding pads in red



MC-2438

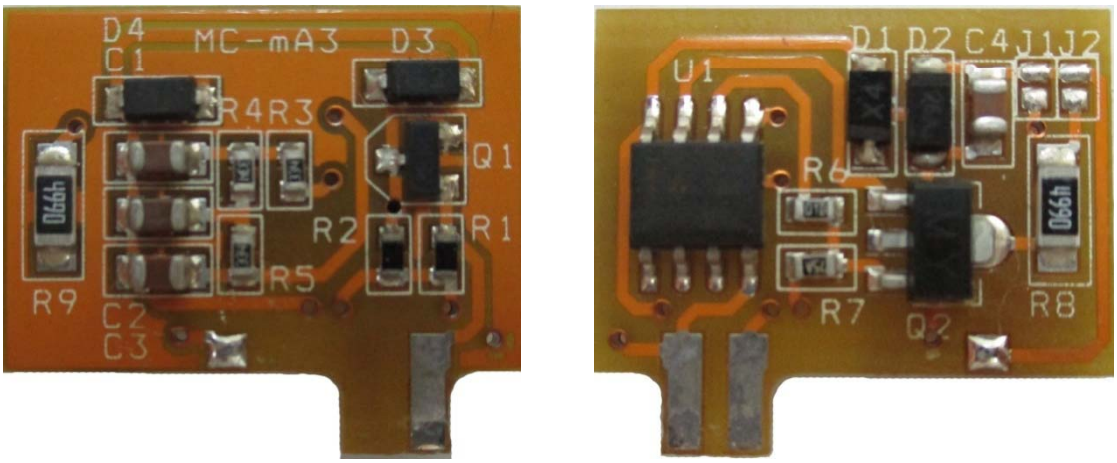


MC-2738

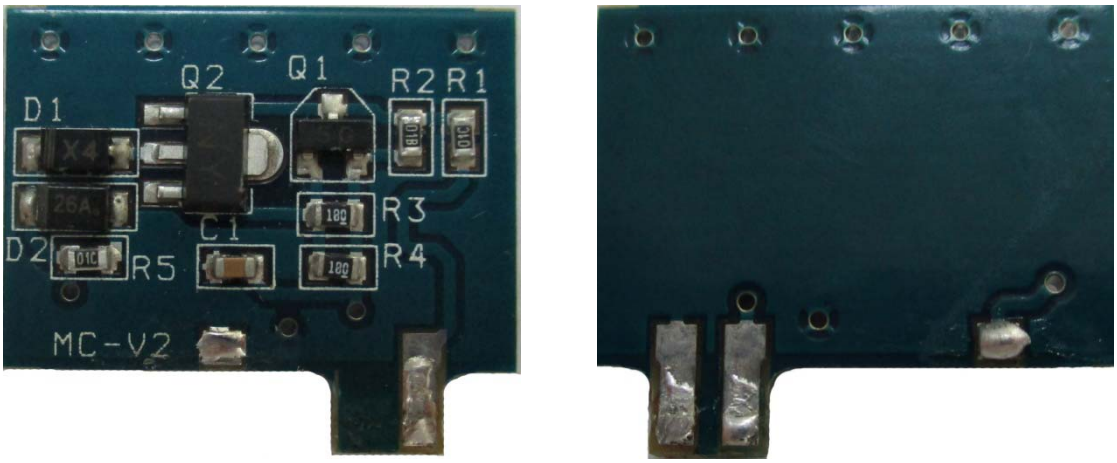


MC-2538/2638/2838

Appendix 2：



SCR Module (MC-mA3)



SSR Module (MC-V2)