

MY07 SERIES INSTRUCTION MANUAL

MY071-E1

Carefully read all the instructions in this manual. Please place this manual in a convenient location for easy reference.

Specification

- My07 series instrument: 4 big LED display, 0-100%LED bar display input, Accuracy: (Max $\pm 0.2\%$ fus or ± 1) $\leq \pm 1$ digit
RTD or TC input, the maximum resolution is 0.1 degree. Analog input, the maximum resolution is 0.001 degree.
- Please make sure that the power and output types are right before using, there is a wire diagram beside the controller, in the code NO4,5,6,7 you can see the alarms mode, (SEE 1. PRODUCT CHECK)
- Clients can set TC, RTD, Analog input by keyboard, please set the input type coincide with the sensor, Check details of the manual "6.2" parameter INP1, usually analog signal inputs are 0-10VDC 2-10VDC, if you need mA input, please parallel with a standard resistor 500ohm/0.25W, or specified when order. (Except 0-20mV or 0-50mV input)
- MY107 with max 3 alarms, MY407, MY507, MY707, MY907 with max 4 alarms. Each alarm have self-reliant differential gap and self-reliant time delay function, such as time delay work on or time delay work off.
With hold action alarm mode: When Hold action is ON, the alarm action is suppressed at start-up until the measured value enters the non-alarm range. See (6.2**ALARM TYPE TABLE)
- Communication function RS-485, Modbus-RTU

1. PRODUCT CHECK

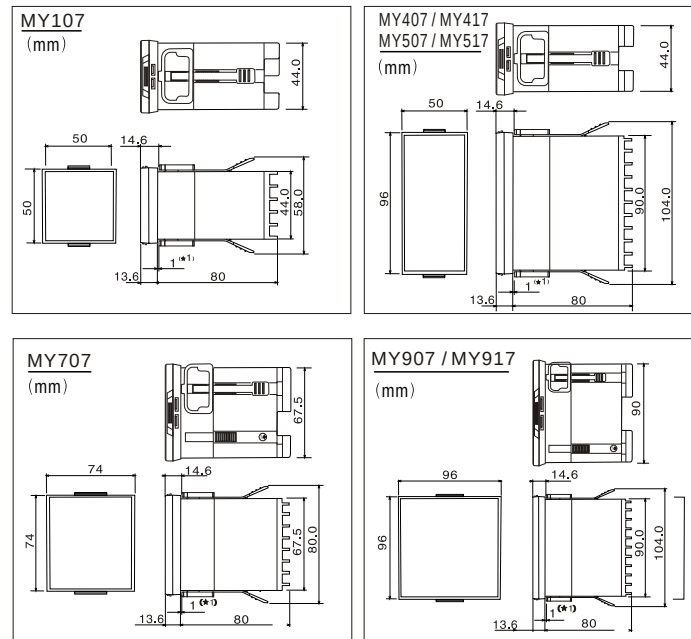
	MY107 (48mmx48mm)
	MY707 (72mmx72mm)
MODEL (Size: wideXhigh)	MY507/MY517 (96mmx48mm)
	MY407/MY417 (48mmx96mm)
	MY907 /MY917(96mmx96mm)

CODE

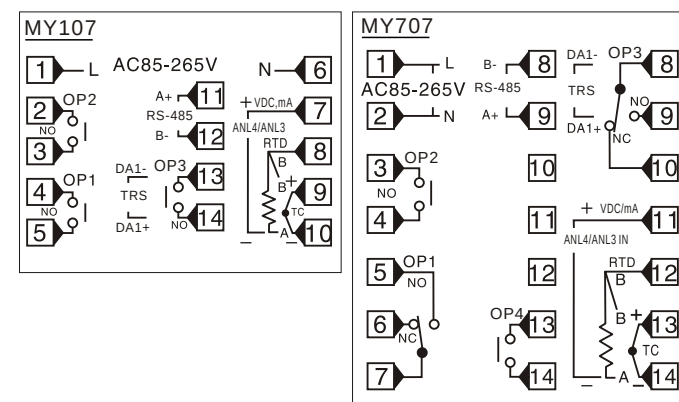
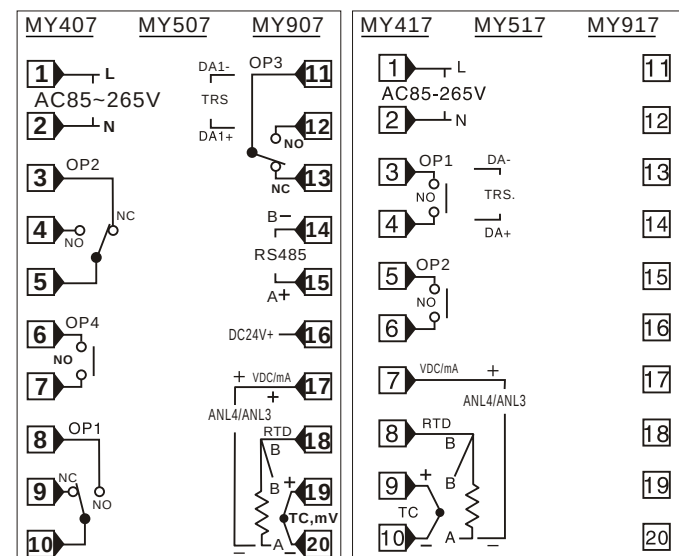
□□□□ - □□ * □□□ - N □□ - N / N / N / N
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15)

- (1) Control action
N: Only indicating without H: indicating and alarming
- (2) Input type, (3) Range code: See "7.INPUT RANGE TABLE"
- (4) Alarm 1 [AL1] (5) Alarm 2 [AL2]
(6) Alarm 3 [AL3] (7) Alarm 4 [AL4]
- A: Deviation high alarm
B: Deviation low alarm
C: Deviation high/low alarm
D: Deviation band alarm
E: Deviation high alarm with hold action
F: Deviation low alarm with hold action
G: Deviation high/low alarm with hold action
M: Deviation band alarm with hold action
H: Process high alarm
J: Process low alarm
K: Process high alarm with hold action
L: Process low alarm with hold action
- (8) Remark code: N
(9) Remark code: N
(10) Communication
N: No Communication 5: Rs485 communication Modbus-RTU
- (11) Transmission
N: No transmission
C: PV transmission (4-20mA) E: SV transmission (4-20mA)
P: PV transmission (0-5V) R: SV transmission (0-5V)
Q: PV transmission (0-10V) S: SV transmission (0-10V)
- (12)/(13)/(14)/(15) Remark code: N

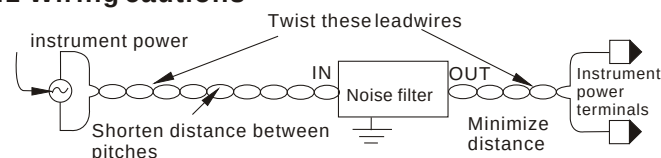
2. MOUNTING SIZE



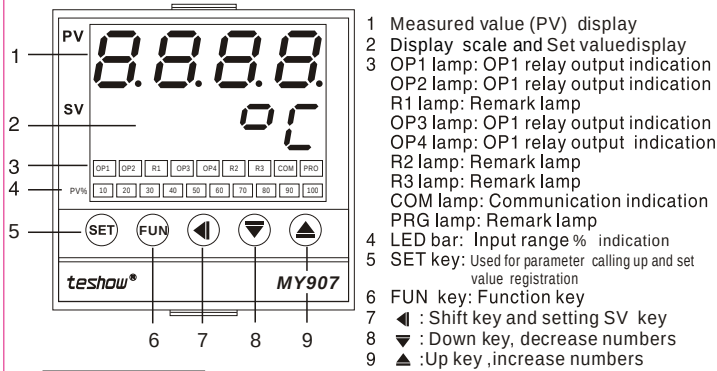
3. WIRING



3.1 Wiring cautions



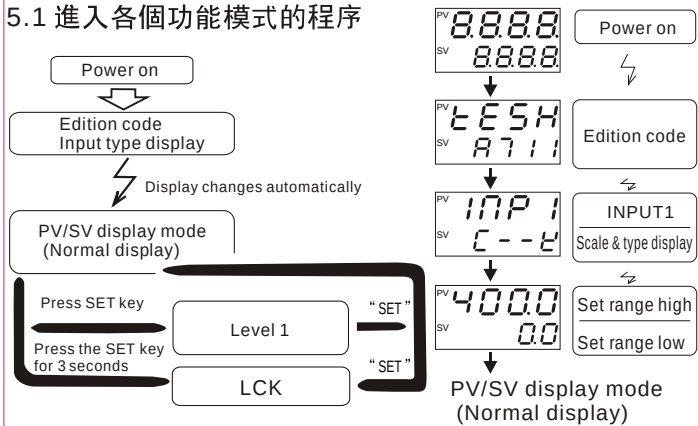
4. PARTS DESCRIPTION



CAUTION To avoid damage to instrument, never use a sharp object to press keys.

5. SETTING

5.1 進入各個功能模式的程序



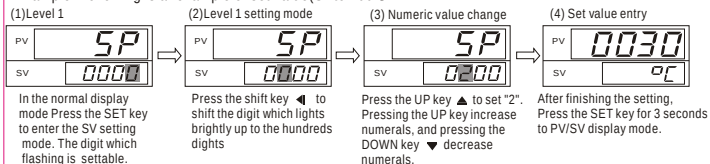
Display	E	E	J	N	Wu3_Re25	S	T	R	B	AN4	AN3	AN2	AN1	PE
Input	K	E	J	N	Wu3_Re25	S	T	R	B	2-10VDC *1-5VDC *4-20mA	0-10VDC *0-5VDC *0-20mA	0-50mV	0-20mV	Pt100
Range	1300 °C	600 °C	800 °C	1300 °C	2000 °C	1600 °C	400 °C	1700 °C	1800 °C	0-50mV	0-20mV	0-50mV	0-20mV	800 °C

Display	r-400	CU	r-80	AN6	AN5
Input	0-400 ohm	Cu50	0-80 ohm	Customer	Customer
Range	-1999~9999	150 °C	-1999~9999	-1999~9999	-1999~9999

* Usually analog signal inputs are 0-10VDC or 2-10VDC, if you need mA input, please parallel with a standard resistor 500ohm 0.25W, or specified when order. (Except 0-20mV or 0-50mV input)

5.2 Setting set value(SV)

Example: Following is an example of set value (SP) to 200°C



6. LEVEL

6.1 Level 1

Press the SET key to level 1:

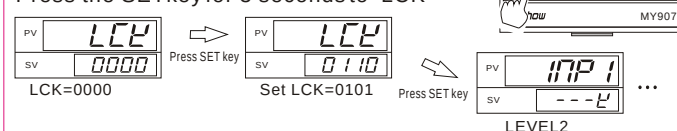


The following parameters are displayed one by one every time the SET key is pressed. 1# Factory set value

Symbol	Name	Range	1#	Description
SP	SET Value	-1999 to 9999	0	SP value only for reference value in deviation alarm mode
AL1	Alarm 1	-1999 to 9999	10	Set the alarm value for alarm 1.
AL2	Alarm 2	-1999 to 9999	10	Set the alarm value for alarm 2
AL3	Alarm 3	-1999 to 9999	10	Set the alarm value for alarm 3
AL4	Alarm 4	-1999 to 9999	10	Set the alarm value for alarm 4
Ad	Device address checking		1	Communication device address, only for checking.

6.2 Level 2

Press the SET key for 3 seconds to LCK



*In any time you can press SET key for 3s to save value and exit to PV/SV mode. The following parameter symbols are displayed one by one every time the SET key is pressed. 1# Factory set value

Symbol	Name	Range	1#	Description								
INP1	Main input type select											
	Setting	E	E	J	N	Wu3_Re25	S	T	R	B	AN4	AN3
	Input	K	E	J	N	Wu3_Re25	S	T	R	B	2-10VDC	0-10VDC
	Range	1300 °C	600 °C	800 °C	1300 °C	2000 °C	1600 °C	400 °C	1700 °C	1800 °C	0-50mV	0-20mA
	Setting	AN2	AN1	PE	r-400	CU	r-80	AN6	AN5			
Input	0-50mV	0-20mV	Pt100	0-400 ohm	Cu50	0-80 ohm	Customer	Customer				
Range	-1999~9999	-1999~9999	800 °C	-1999~9999	150 °C	-1999~9999	-1999~9999	-1999~9999	-1999~9999			
dp	Decimal point	0, 1, 2, 3	0	0,1 for all inputs type 2,3 only for Linear analog type input								
LSPL	Low setting limiter	-1999 to 9999	0	Set lower setting limiter Lower point of transmission								
USPL	High setting limiter	-1999 to 9999	400	Set high setting limiter Higher point of transmission								
UNIT	Display scale	C, F, A	0	C : Centigrade, F : Fahrenheit A : without scale								
P105	PV bias	-199 to 199	0.0	Sensor correction is made by adding bias value to measured value (PV).								
PVFL	PV follow-up PV input filter	0 to 30	25	PV variable-value control, PV will response slower if PVFL is bigger								
ANL1	Lowest value of PV display	-199~9999	0	Lowest value display when linear analog inputs Such as 4-20mA input.								
ANH1	Highest value of PV display	-1999~9999	2000	Highest value display when linear analog inputs Such as 4-20mA input.								
ALd1	Alarm1 mode	00 to 16	11	Select the type of alarm1 See(**ALARM TYPE TABLE)								
ALH1	Alarm 1 differential gap	0.0 to 100.0	1.0	Alarm1 differential gap setting								
ALt1	Alarm1 time delay function	0 to 2000	0	=0: without time delay function =1~1000: Alarm 1 delay work on 1~1000s =1001~2000: Alarm1 delaywork off 1~1000s								
ALd2	Alarm2 mode	00 to 16	10	Select the type of alarm2 See(**ALARM TYPE TABLE)								
ALH2	Alarm 2 differential gap	0.0 to 100.0	1.0	Alarm2 differential gap setting								
ALt2	Alarm2 time delay function	0 to 2000	0	=0: without time delay function =1~1000: Alarm 2 delay work on 1~1000s =1001~2000: Alarm2 delaywork off 1~1000s								
ALd3	Alarm3 mode	00 to 16	10	Select the type of alarm3 See(**ALARM TYPE TABLE)								
ALH3	Alarm 3 differential gap	0.0 to 100.0	1.0	Alarm2 differential gap setting								
ALt3	Alarm3 time delay function	0 to 2000	0	=0: without time delay function =1~1000: Alarm 3 delay work on 1~1000s =1001~2000: Alarm3 delaywork off 1~1000s								
ALd4	Alarm4 mode	00 to 16	10	Select the type of alarm4 See(**ALARM TYPE TABLE)								
ALH4	Alarm 4 differential gap	0.0 to 100.0	1.0	Alarm4 differential gap setting								
ALt4	Alarm4 time delay function	0 to 2000	0	=0: without time delay function =1~1000: Alarm 4 delay work on 1~1000s =1001~2000: Alarm4 delaywork off 1~1000s								
IdAd	Device address setting	0-127	1	Communication device address setting.								
BAUD	Band-rate setting		9.6	BAUD=2.4K, 4.8K, 9.6K, 19.2K								

**ALARM TYPE TABLE (ALd_=00~16)

10: No alarm output	00: No alarm output
11: Deviation high alarm	01: Deviation high alarm with hold action
12: Deviation low alarm	02: Deviation low alarm with hold action
13: Deviation high/low alarm	03: Deviation high/low alarm with hold action
14: Deviation band alarm	04: Deviation band alarm with hold action
15: Process high alarm	05: Process high alarm with hold action
16: Process low alarm	06: Process low alarm with hold action

7. INPUT RANGE TABLE

Input type	Code	Input type	Code
K	0 to 400 °C K A4 0 to 600 °C K A6 0 to 1300 °C K B3	Pt100	0 to 400 °C D A4 0 to 600 °C D A6 0 to 800 °C D A8 -100 to +200 °C D C2 -200 to +800 °C D C8 -100.0 to +200.0 °C D F2 -50.0 to +200.0 °C D G2
E	0 to 200 °C E A2 0 to 400 °C E A4 0 to 600 °C E A6		
J	0 to 400 °C J A4 0 to 600 °C J A6 0 to 800 °C J A8		
T	0 to 200 °C T A2 0 to 300 °C T A3 0 to 400 °C T A4		
S	0 to 1600 °C S B6		
R	0 to 1700 °C R B7		
B	200 to 1800 °C B B8		
N	0 to 1300 °C N B3		
Wu3_Re25	600 to 2000 °C W B0		
Cu50	-50.0 to 150.0 °C C C2		
		Input type	Code
		0 to 20mV	V 01
		0 to 50mV	V 02
		0 to 5VDC	V 03
		0 to 10VDC	V 04
		1 to 5VDC	V 08
		2 to 10VDC	V 09
		4 to 20mA	A 03
		0 to 20mA	A 02
		0 to 400 ohm	X 01
		0 to 80 ohm	X 02

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