CWP Intelligent double screen digital display meter

●Compatible with 21 kinds of input signals: RTD, thermocouple, standard current, standard voltage, millivolt, remote pressure gauge resistance, etc.

●Sensor zero display value, full point, variable output ratio range decimal point position can be set freely

●Multi-stage digital filtering selection, effective filtering interference, effective elimination of non-critical jump word

● Realize alarm, control output, variable output, peak hold display, peak variable output, RS485-MODBUS(RTU)

Main technical specifications

●Measurement over limit display: "1----" or "-1---"

●Measurement speed: 3 times/second

●Measurement accuracy: (25℃)0.5%FS≤150ppm

●Isolated RS485: 64 nodes

●Working environment: Temperature 0~50℃、Relative humidity≤85%RH

●Working power: (5W)AC 220V,50Hz

●Isolated transducer output: (25℃)0.5%FS, IRL≤250Ω, VRL≥500K

●Transmitter distribution voltage: DC 22~28V (maximum short-circuit current≤35mA)

● Relay contact capacity: AC 220V/3A

● Relay contact life: 100000 times

Outline and mounting hole dimensions (see table below)

| Model	Digital tube size		Dimension（mm）	Hole size（mm）
	Upper row	Bottom row		
CWP-C203	0.36″（Red）	0.36″（Green）	48×48×108（Square）	$45^{+1}×45^{+1}$
CWP-C403	0.52″（Red）	0.36″（Green）	96×48×80（horizontal）	$91^{+1}×45^{+1}$
CWP-S403	0.39″（Red）	0.36″（Green）	48×96×80（vertical）	$45^{+1}×91^{+1}$
CWP-C703	0.52″（Red）	0.36″（Green）	72×72×104（Square）	$68^{+1}×68^{+1}$
CWP-C803	0.80″（Red）	0.40″（Green）	160×80×93（horizontal）	$152^{+1}×76^{+1}$
CWP-S803	0.52″（Red）	0.40″（Green）	80×160×93（vertical）	$76^{+1}×152^{+1}$
CWP-C903	0.80″（Red）	0.56″（Green）	96×96×80（Square）	$91^{+1}×91^{+1}$
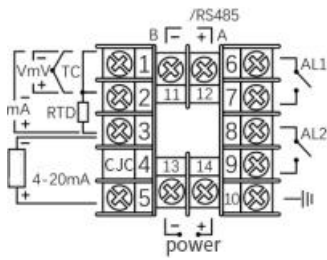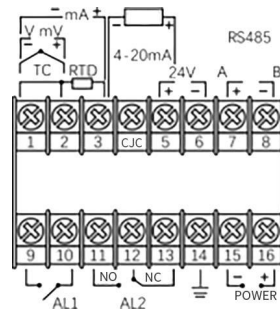
CWP-C203　　　　　　　CWP-C403　　　　　　　CWP-C703
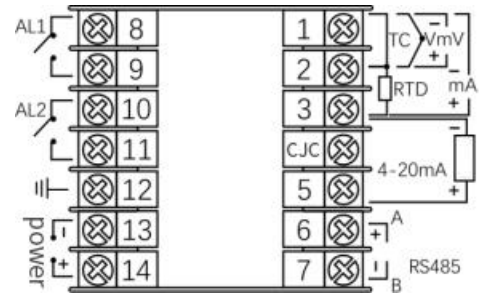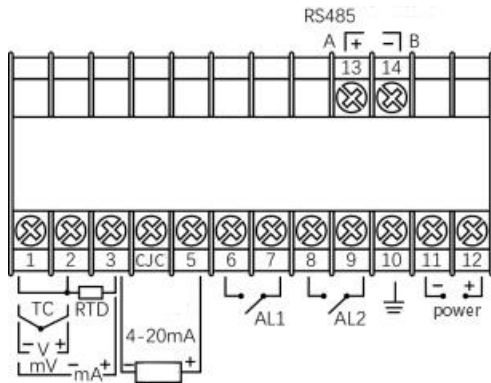
CWP-C803　　　　　　　CWP-C903
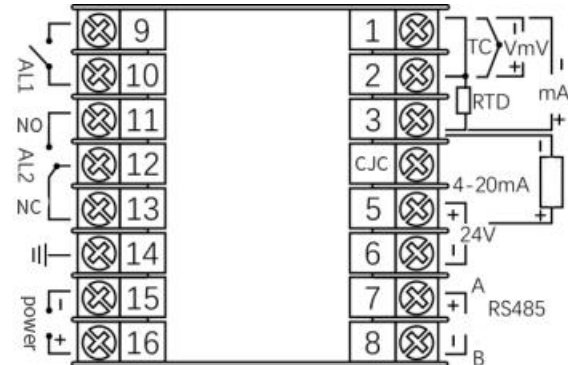
Selection instructions

Model	Code	Note
Dimensions	-C203	Square　48×48　(Open hole45+1×45+1)
	-C403	Horizontal 96×48　(Open hole91+1×45+1)
	-S403	vertical　48×96　(Open hole45+1×91+1)
	-C703	Square　72×72　(Open hole68+1×68+1)
	-C803	horizontal　160×80　(Open hole152+1×76+1)
	-S803	vertical　80×160 (Open hole76+1×152+1)
	-C903	Square　96×96　(Open hole91+1×91+1)
	-C203	Square　48×48　(Open hole45+1×45+1)
Communication method	0	No communication
	8	RS485Communication
Output method	1	Relay (standard)
	2	4-20mA
	3	0-20mA
	4	1-5V
	5	0-5V
	6	0-10V
Input Signal Type	□	See "Sensor input signal types" table
First alarm method	H	Upper limit alarm control (default)

Second alarm method	L	Lower limit alarm control (default)
Feeder output	P	1 way DC24V output (standard)
Power supply method	Default	AC220V±10%(Linear power supply)
	T	AC/DC90-250V(Switching power supply)
	W	DC12-24V(Switching power supply)

Panel Description (96×48 panel as an example)
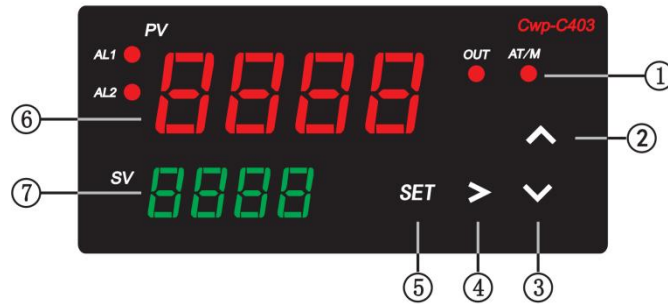
①Indicator light: AL1 relay indicator light (light when there is output)

AL2 relay indicator (on when there is an output)

OUT indicator is on, AL1 alarm value is displayed in the SV window

AT/M indicator lights, display AL2 alarm value in SV window

AT/M+OUT indicator lights at the same time, peak value (maximum value) is displayed in the SV window

②Add key: set state to modify the value plus one, press and hold to scroll plus one

③Subtract key: modify the value under the setting state, press and hold to scroll down by one

② + ③ zero key: press "minus key + plus key" at the same time to eliminate the last peak, the current measurement value as the peak

④Shift key: set the state flashing cursor to move right one or switch the previous parameter

Switch the SV window display in the measurement state

⑤ Setting key: save data or switch the next parameter in the setting state

Press and hold the key to enter the password input state in the measurement state

⑥(PV) display window: display the current measurement value

⑦ (SV) display window: switch to display relay alarm value or measurement peak value

Cycle display sequence: AL1 value display → AL2 value display → peak value display

Sensor parameters (enter by pressing [SET] and then enter the password 2000))

Codes	Functions	Factory values	Notes
Sn	Input signal selection	Range 0~22, default 3 Input 4-20mA signal	Sensor input signal (see Table I)
dot	Decimal point position	Range 0~3, default 1 ①000.0　②00.00　③0.000	Parameters changed with decimal point:PUL、PUH、OBL、OBH、Pb、AL1、HAL1、AL2、HAL2
PUL	Zero point display value	Range -1999~9999, default 000.0	Sensor range lower limit value
PUH	Full point display value	Range-1999~9999，default 500.0	Sensor range upper limit value
Pb	Zero point correction value	Range-100~100，default 000.0	SV display = actual display value × K1 + Pb
K1	Display magnification factor	Range0.100~9.900，default 1.000	SV display = actual display value × K1 + Pb
InPL	Non-standard signal zero point	Range0 ~ 400，default 0	Setting required for millivolt signal or resistance signal input
InPH	Non-standard signal zero point	Range0 ~ 400，default 400	Setting required for millivolt signal or resistance signal input
FILt	Digital filtering coefficients	Range 0.100 ~ 0.900，default 0.100	The larger the filter coefficient the more stable the display and the greater the lag
dISP	SV Window Controller	Range0000~1223，default 1223	SV window display data (see Table II)
ID	communication equipment address	Range 0~255，default 1	RS485 communication address setting
BAUD	Communication baud rate	Range 0~3，default 3 ○1200　①2400　②4800　③9600	RS485 communication baud rate setting

Sensor input type Table I

Codes	Sensor types	Measurement Range	Codes	Sensor types	Measurement Range
0	S-Type Thermocouple	0 ~ 1600°C	**12**	DC 0 ~ 10V	Customized instructions
1	R-Type Thermocouple	0 ~ 1600°C	**13**	DC 0 ~ 10mA	Standard signals
2	B-Type Thermocouple	200 ~ 1800°C	**14**	DC 0 ~ 20mA	Standard signals
3	K-Type Thermocouple	0 ~ 1300°C	**15**	DC 4 ~ 20mA	Standard signals
4	N-Type Thermocouple	0 ~ 1300°C	**16**	DC 0 ~ 100mV	Millivolt signals
5	E-Type Thermocouple	-200 ~ 850°C	**17**	0 ~ 400Ω	Resistance signals
6	J-Type Thermocouple	0 ~ 650°C	**18**	/	/
7	T-Type Thermocouple	-200 ~ 400°C	**19**	DC 0 ~ 5V	Signal open square

8	Pt100 RTD	-199 ~ 600℃	20	DC 1 ~ 5V	Signal open square
9	Cu50 RTD	-50 ~ 150℃	21	DC 0 ~ 10mA	Signal open square
10	DC 0 ~ 5V	Standard signals	22	DC 4 ~ 10mA	
11	DC 1 ~ 5V	Standard signals	23	Universal Input	

SV Configuration Table II

Thousand digits Peak display switch	0	Disable display of measurement peaks
	1	Allow display of measurement peaks
Hundred digits AL2 display switch	0	Disable display of AL2 2nd alarm value
	1	Allow display of AL2 2nd alarm value
	2	Allows display of AL2 2nd alarm value, allows panel to set AL2 2nd alarm value quickly
Ten digits AL1 display switch	0	Disable display of AL1 1st alarm value
	1	Allow display of AL1 1st alarm value
	2	Allow display of AL1 1st alarm value, allow panel to set AL1 1st alarm value quickly
Single digit character Power-on display selection	1	AL1 1st alarm value is displayed when power is turned on
	2	AL2 2nd alarm value is displayed when power is turned on
	3	Display the peak value of measurement when power is turned on

Transformation parameters (enter the way by pressing [SET] and then enter the password 1000)

Codes	Functions	Factory values	Notes
outy	Transformer output type	Range 1~3, default 2 ①0-10mA ②4-20mA ③0-20mA	Output signal type selection
obL	Variable output zero point	Range-1999~9999, default 000.0	Output signal range lower limit value
obH	Variable output full point	Range-1999~9999, default 500.0	Output signal range upper limit value
PEAK	Peak transmission	Range 0~1, default 0 ○ Output PV value ① Output SV value	PV window output measured value SV window output peak value

Relay parameters (enter by pressing [SET], then enter password 3000)

Codes	Functions	Factory values	Notes
PAL1	1st alarm selection	Range 0000~0002, default 0001	0001 upper limit alarm, 0001 lower limit alarm
AL1	1st alarm value	Range -1999~9999，default 090.0	Alarm after the 1st relay reaches the set

			value
HAL1	1st return difference value	Range 0~9999, default 000.0	Alarm stops after the relay closes ± back to the difference value
PAL2	2nd alarm selection	Range 0000~0002, default 0002	0001 upper limit alarm, 0001 lower limit alarm
AL2	2nd alarm value	Range -1999~9999, default 060.0	Alarm after the 2nd relay reaches the set value
HAL2	2nd return difference value	Range 0~9999, default 000.0	Stop alarm after the relay closes ± back to the difference value
d1	1st delayed alarm	0~100 Unit seconds	Delayed set seconds alarm after reaching alarm value
d2	2nd delayed alarm	0~100 Unit seconds	Delayed set seconds alarm after reaching alarm value