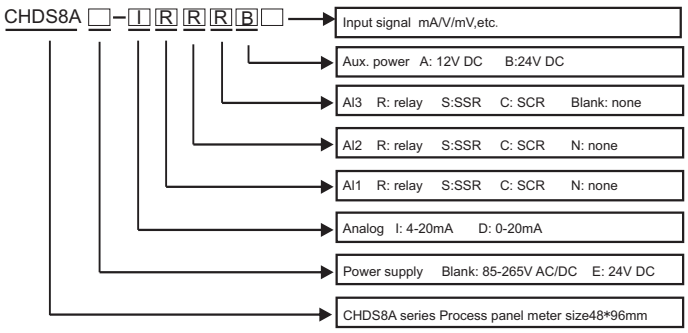
CHDS8A series Process Panel Meter User Instruction Manual

First of all, thank you for using our qualified products. Please read this manual carefully before use so that you can fully understand and properly use the instrument

1. Model number and ordering info.



2. Technical specifications

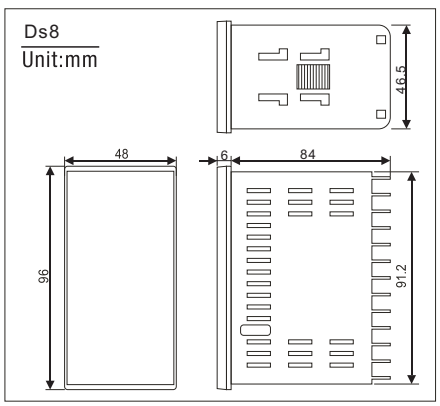
The instrument accepts many types of signals input as 4-20mA, 0-10V, 0-75mV, TC/RTD, load cell, etc.. This makes it applicated in different applications , such as temperature, pressure, weighting, resistance, current and voltage measurement. We also provide 20-stage programmable setting for no-linear input. The input, output and power supply are isolated from each other.

Power supply	85-265V AC/DC 50/60Hz consumption: ≤5VA
Accuracy	0.3%F.S ±2 digits
Sampling speed	≤8 times/sec.
Alarm	Relay, 250V/3A AC or 30V/3A DC cos =1
Input	refer to " Input signal chart"
Analog	0/4-20mA set output range by software
Aux. power	12/24V 30mA DC
Communication	Rs485 / Rs232

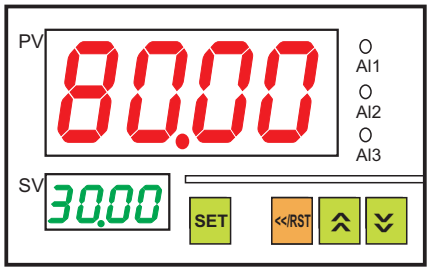
Input signal chart

Input signal	Temp range	Input impedance	Factory set
mA	0~1mA,0-10mA, 4-20mA	≤150 Ω	4-20mA
V(AV/DV)	0~5V, 0-10V,0-500V	≤200K Ω	0-10V DC
mV	0-10mV, ±100mV	≤2M Ω	0-75mV
RT	0-400 Ω , 0-10K Ω	≤0. 2mA	0-400 Ω
	Cu50, Cu100 -50~150℃		Indicate when order
PT	-200~650℃	≤0. 2mA	Pt100
Pr	20 segments input		Indicate when order

3. Size and mounting



4.Panel description



PV window: display PV and parameter notation

SV window: display SV and parameter value

AI1: indicate lamp for alarm 1, ON: active OFF: inactive

AI2: indicate lamp for alarm 2, ON: active OFF: inactive

AI2: indicate lamp for alarm 2, ON: active OFF: inactive

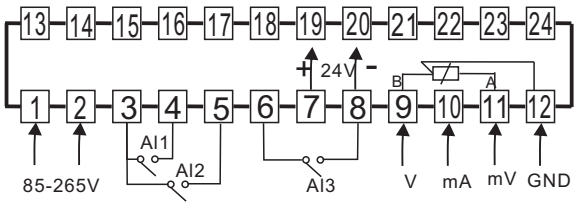
SET The main function key

The increasing key

<<RST The shift key

The descending key

5. Wiring diagram

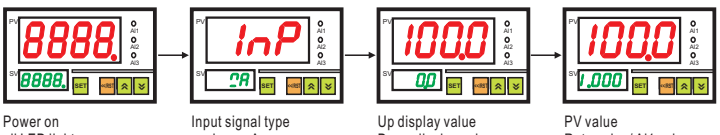


Remark Above is a general wiring diagram. Please always refer to the connection diagram on the side of the controller.

6. Setting and programming

6.1 Power on initialization

Power on for self-checking and showing input type & display value range.



Power on all LED light up

Input signal type such as mA

Up display value Down display value

PV value Rate value/ AI1 value

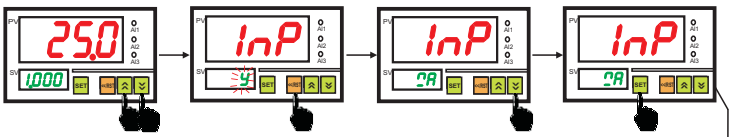
6.2 Input signal selection(How to change the signal InP=mA setting value)

(1)PV/SV display mode

(2)SV configurable mode

(3)SV configurable mode

(4)SV configurable mode



Press **Up** & **Down** key>3s till **InP** showing

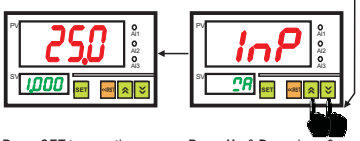
Press **<</RST**,SV window digit flashing

Press **Down** key twice, to find **mA**

Press **SET** to confirm and save the changement

(6)SV configurable mode

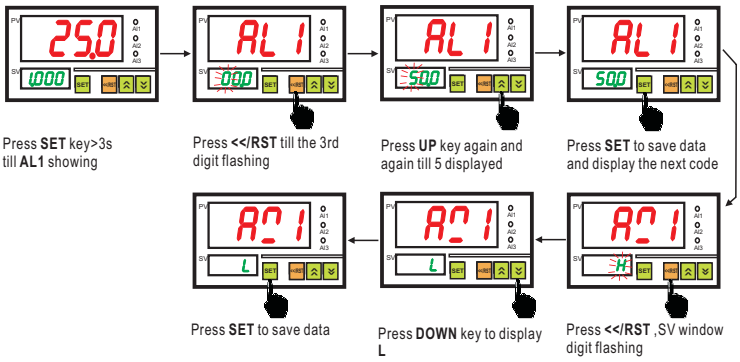
(5)SV configurable mode



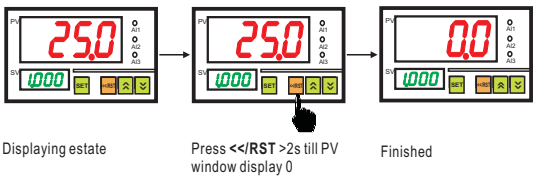
Press SET to save the changes

Press **Up** & **Down** key>3s back to the display estate

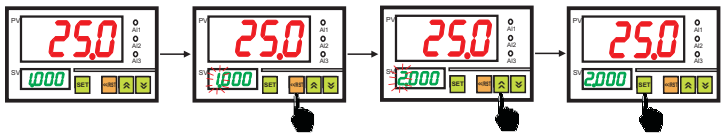
6.3 Alarm setting (How to change alarm AL1=50.0, AM1=L)



6.4 Reset zero



6.5 Rate configuration

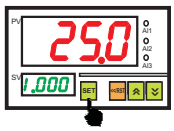


Remark ◆PV value=Rate×(UPS-LSP)+PVF (USP, LSP refer to the parameter menu)
◆The decimal point moves automaticallyonce the value increases. For example, the present SV is 9.000, when press increase,the display changes to 10.00.

6.6 How to configure all configurable parameters

Remark The instrument will return to the measuring estate if no any operation for 25 seconds

7. Parameter menu

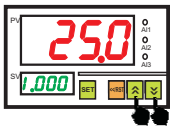


Press SET for 3 seconds
to enter menu level 1 as below:

Notation	Name	Description	Default	Remark
AL1	Alarm 1 value AL1	LSP≤AL1≤USP	144.0	Alarm value for alarm 1
AM1	Alarm 1 mode AM1	H,L	H	H: High alarm L: Low alarm
HY1	Alarm hysteresis for alarm 1 HY1	-50 to 50	1.0	Hysteresis value for alarm 1
AL2	Alarm 2 value AL2	LSP≤AL2≤USP	10.0	Alarm value for alarm 2
AM2	Alarm 2 mode AM2	H,L	H	H: High alarm L: Low alarm
HY2	Alarm hysteresis for alarm 2 HY2	-50 to 50	1.0	Hystersis value for alarm 2
AL3	Alarm 3 value AL3	LSP≤AL3≤USP	50.0	Alarm value for alarm 3
AM3	Alarm 3 mode AM3	H,L	H	H: High alarm L: Low alarm
HY3	Alarm hysteresis for alarm 3 HY3	-50 to 50	0.0	Hysteresis value for alarm 3
PVF	Offset value PVF	-50 to 50	0.0	PV value= measuring value - PVF LCK=000, the menu level 1 can be modified
inP	Input sensor code selection INP			

Symbol	Pt	rt	mV	A	V	mA	
input	Pt100	rt	mV	A	V	mA	

Notation	Name	Description	Default	Remark
LSP	Low display value LSP	-1999～9999	0.0	PV low limit display value
USP	High display value USP	-1999～9999	100.0	PV high l imit display value
dP1	Decimal point dP1	0000, 000.0 00.00,0.000	000.0	PV decimal point
trL	Transmission output lower limit TrL	LSP≤trL≤USP	0.0	Display for re-transmission at low limit value
trH	Transmission output high limit TrH	LSP≤trH≤USP	100.0	Display for re-transmission at high limit value
LCK	Lock password LCK	0~999	000	LCK=010, the menu level 1 can be read only



Press ⩓ and ⩔ at the same time for 3 seconds
to enter menu level 2 as below:

Notation	Name	Description	Default	Remark
bAd	Baud rate bAd	1,2,3,0	0	1: 19.2K bit/s 0: 9.6K bit/s, 2,3 reserved
Add	Communication address Add	000~200	001	Communication addresss code
Prt	Temperature unit Prt	NO, YES	NO	NO:℃ YES:F
ScY	Lock password	0~999	015	Password to access menu level 2

Remark Depends on the specific functions, some of parameter may or may not be available.