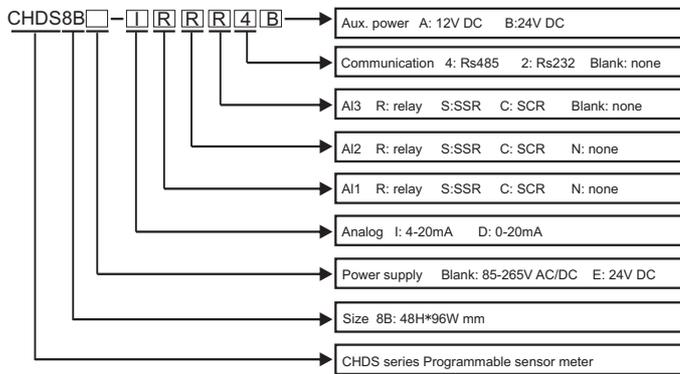


CHDS8B series Programmable Sensor Meter User Instruction Manual

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

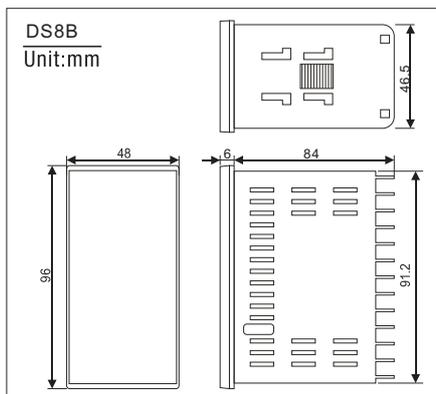
The instrument accepts many types of signals input as 4-20mA, 0-10V, 0-75mV, TC/RTD, load cell, etc.. This makes it applied in different applications, such as temperature, pressure, weighting, resistance, current and voltage measurement. We also provide 20-stage programmable setting for no-linear input. 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	4-20mA, 0-10V, 0-75mV, TC/RTD
Analog	0/4-20mA set output range by software
Aux. power	12/24V 30mA DC
Communication	Rs485 / Rs232

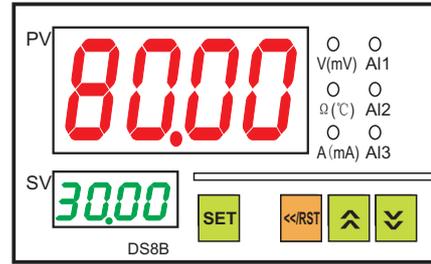
Input signal chart

Input signal	Temp range	Input impedance	Factory set
A(AA/DA)	0~2A, 0-5A	CT configurable!	Indicate when order
mA	0~1mA, 0-20mA, 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
TC	K: 0-1320℃	≤2M Ω	K
	J: 0-1300℃		
	E: 0-1000℃		
	T: -150-400℃		
	B: 0-1820℃		
	R: 0-1700℃		
S: 0-1600℃			

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

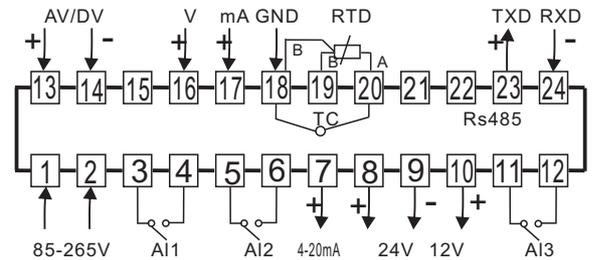
V(mV): signal input lamp ON: V signal flash: mV signal

Ω (°C): signal input lamp ON: resistance signal flash: TC/RTD signal

A(mA): signal input lamp ON: A signal flash: mA signal



5. Wiring diagram

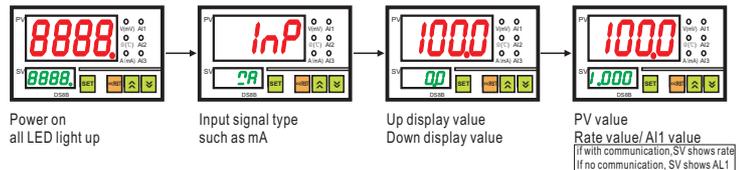


Remark Above is a general wiring diagram. Please always refer to the connection diagram on the side of the controller.

6. Setting and programming

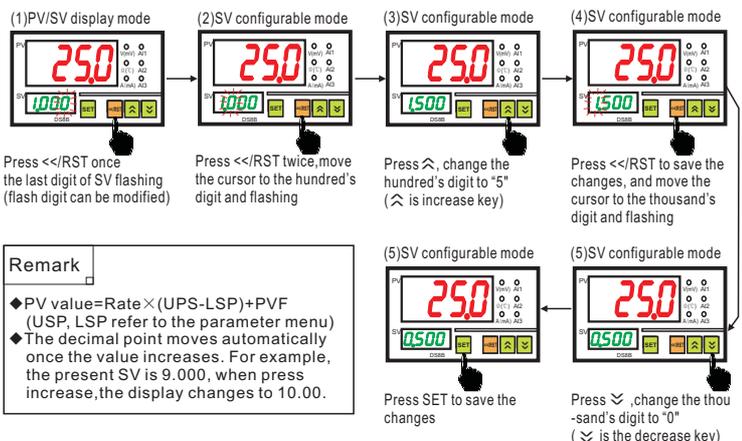
6.1 Power on initialization

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



6.2 Rate configuration and parameter configuration

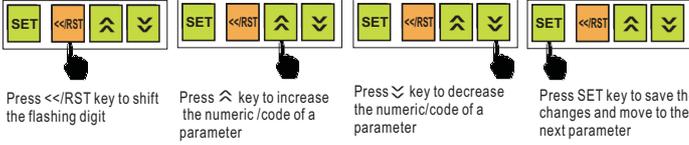
6.2.1 How to change the SV setting value (example: change 1,000 to 0.500)



Remark

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

6.2.2 How to configure all configurable parameters



6.2.3 Zero point clearance

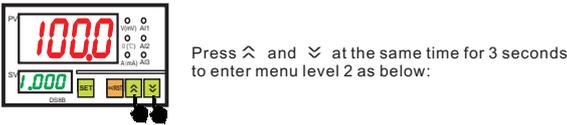


Remark The instrument will return to the measuring estate if no any operation for 25 seconds

7. Parameter menu



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
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
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
PVF	Offset value PVF	-50 to 50	0.0	PV value= measuring value - PVF
LCK	Lock password LCK	0~999	000	LCK=010, the menu level 1 can be read only LCK=000, the menu level 1 can be modified



Notation	Name	Description	Default	Remark				
INP	Input sensor code selection INP							
	Symbol	μ	μ	ϵ	t	r	S	b
	input	K	J	E	t	r	S	b
INP	Symbol	Pt	rt	mV	A	V	mA	
	input	Pt100	rt	mV	A	V	mA	
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 limit display value				
gP	Decimal point gP	0000,000.0 00.00,0.000	000.0	PV decimal point				
HY1	Alarm hysteresis for alarm 1 HY1	-50 to 50	1.0	Hysteresis value for alarm 1				
HY2	Alarm hysteresis for alarm 2 HY2	-50 to 50	1.0	Hysteresis value for alarm 2				
HY3	Alarm hysteresis for alarm 3 HY3	-50 to 50	0.0	Hysteresis value for alarm 3				
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				
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 address code				
Prt	Temperature unit Prt	NO, YES	NO	NO:°C YES:F				
LCK	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.

8. Malfunction estimate

No display	Check all the connection and wiring if it's correct; Specially pay attention to the power supply terminals and signal input terminal. Do not connect wrongly; Do not short connect the output terminals by strong current.
Wrong display	Check if the parameter PVF=0; Check if the input signal is conformity with the selected input symbol. For RTD input, please use low impedance cable. The 3 wires should be at the same length.
Wrong control	When the instrument lose control, please check if the output diagram connection is correct; Check if the components for output part is damage or not.
UUUU LLLL display	UUUU: the input signal exceeds the measured USP range; LLLL: the input signal is lower than the measured LSP range; or the input signal terminal connection is contrary.