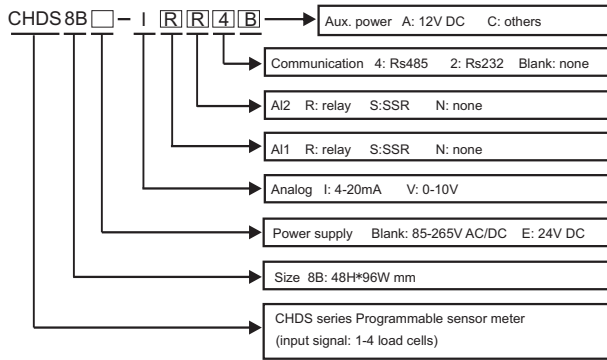


CHDS8B series Weight Indicator User Instruction Manual

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.

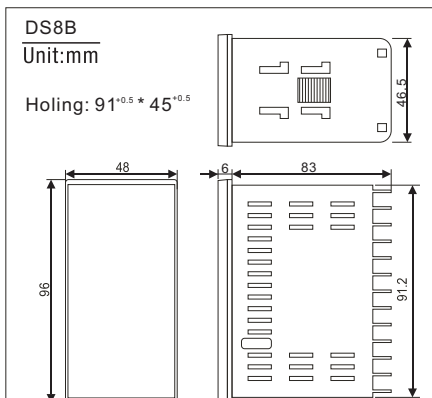


2. Technical specifications

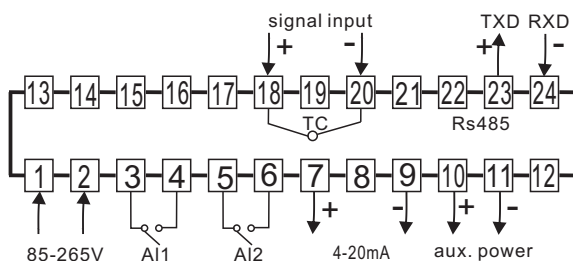
The instrument accepts many types of signals input as 4-20mA, 0-10V, 0-75mV, TC/RTD, load cell, etc.. This makes it applied in different applications, such as temperature, pressure, weighting, resistance, current and voltage measurement. We also provide 20-stage programmable setting for no-linear input.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

Power supply	85-265V AC/DC 50/60Hz consumption: ≤5VA
Insulation resistance	100MΩ (DC500C)
Withstand voltage	AC 1500V/1min * 1mA
Accuracy	0.3%F.S
Sampling speed	≤8 times/sec.
Display range	-1999~9999
Input	Proportion measurement, 4-wire loadcell, 2mV/V signal
Output	250V /3A AC resistance load
Aux. power	12V ±2%, 80mA max
Communication	Rs485 / Rs232
Analog	4-20mA or 0-10V
Standard temp.	-10℃~55℃
Limiting temp.	-25℃~75℃
Standard humidity	35%-85% RH

3. Size and mounting

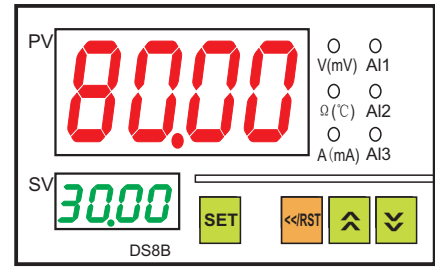


4. Wiring diagram



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

5. Panel description



PV window: display current weight and parameter notation

SV window: display AI1 value and parameter value

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

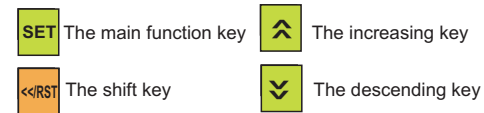
AI2: indicate lamp for alarm 2, ON: active OFF: inactive

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

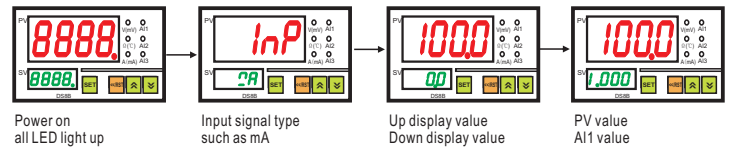
A(mA): signal input lamp ON: A signal flash: mA signal



6. Setting and programming

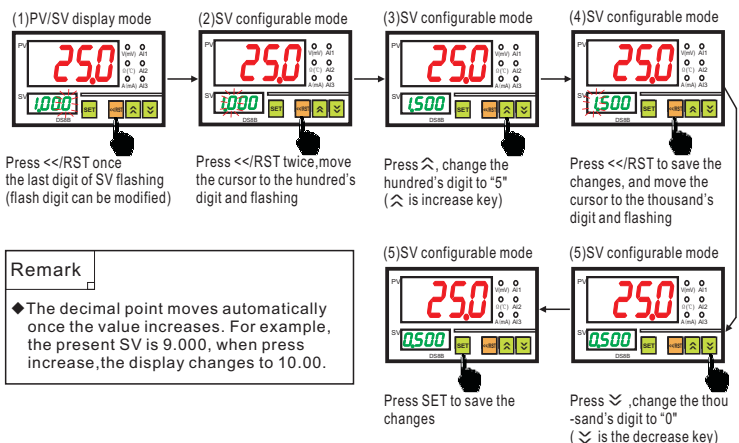
6.1 Power on initialization

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

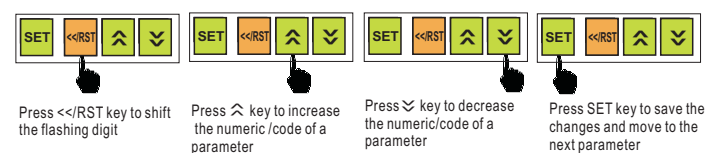


6.2 SV configuration and parameter configuration

6.2.1 How to change the SV setting value (example: change 1.000 to 0.500)

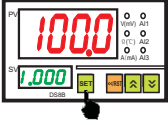


6.2.2 How to configure all configurable parameters



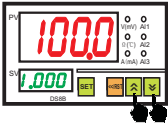
Remark The instrument will return to the measuring estate if no any operation for 25 seconds

7. Parameter menu



Press SET for 5 seconds to enter menu level 1 as below:

Notation	Name	Description	Default	Remark
AL1	Alarm 1 value AL1	-1999≤AL1≤9999	90.0	Alarm value for alarm 1
AM1	Alarm 1 mode AM1	H,L	H	H: High alarm L: Low alarm
AL2	Alarm 2 value AL2	-1999≤AL2≤9999	80.0	Alarm value for alarm 2
AM2	Alarm 2 mode AM2	H,L	H	H: High alarm L: Low alarm
AL3	Alarm 3 value AL3	-1999≤AL3≤9999	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 ~ 50	0.1	PV value= measuring value - PVF
LCK	Lock password LCK	0 ~ 999	010	LCK=010, the menu level 1 can be read only LCK=000, the menu level 1 can be modified



Press \wedge and \vee at the same time for 5 seconds to enter menu level 2 as below:

Notation	Name	Description	Default	Remark				
INP	Input sensor code selection INP, select mV only							
	Symbol	K	J	E	t	r	S	b
	input	K	J	E	t	r	S	b
Pt	Symbol	Pt	rt	mV	A	V	mA	
	input	Pt100	rt	mV	A	V	mA	
LSP	Low display value LSP	-1999 ~ 9999	0.0	Zero point display value				
USP	High display value USP	-1999 ~ 9999	100.0	Load cell scale value (sum of 1-4 loadcell)				
dP	Decimal point dP	0000,000.0 00.00,0.000	0.0	PV decimal point				
HY1	Alarm hysteresis for alarm 1 HY1	-50 ~ 50	0.0	Hysteresis value for alarm 1				
HY2	Alarm hysteresis for alarm 2 HY2	-50 ~ 50	0.0	Hysteresis value for alarm 2				
HY3	Alarm hysteresis for alarm 3 HY3	-50 ~ 50	0.0	Hysteresis value for alarm 3				
TrL	Transmission output lower limit TrL	-1999≤TrL≤9999	0.0	Display for re-transmission at low limit value				
TrH	Transmission output high limit TrH	-1999≤TrH≤9999	100.0	Display for re-transmission at high limit value				
SFt	Filter constant SFt	0~18	004	The bigger the filter constant, the better the effect, the slower the response.				
Add	Communication address Add	000~247	001	Communication address code				
Prt	Input linear process Prt	NO, YES	NO	Reserved parameter				
ScP	Calibration password	0~999	015	The password for calibration. Donot change it.				

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

8. Calibration

8.1 Calibration without standard weight

The instrument is calibrated with 2mV/V load cell. The user just need to set the measuring range (USP) and decimal point (DP) only.

For example, the load cell sensitivity is 2mV/V, the scale is 100KG, 4 load cells is connect-ed. So the total measuring range is 400KG.

USP	Measuring scale value USP	400.0
dP	Decimal point dP	000.0

8.2 Tare-weight clearance (zero point calibration)

The tare-weight clearance can be done in 2 different methods:

Method A: when the tare weight is within ± 50 , press \llcorner for 5 seconds till the PV displays 0.0, the tare-weight clearance operation is finished.

If the tare weight is more than 50, please do not press \llcorner . This operation won't clear the tare weight. If you press accidentally, please enter the Menu Level 1, and set PV=0.



Press \llcorner /RST key for 3 seconds

Method B: When the tare weight is more than 50, press \wedge and \vee for 5 seconds to enter the Menu Level 2, and find parameter \llcorner , set it to 020.

Enter another menu, press SET again and again to find parameter \llcorner , press \llcorner once, the SV data flashes, and press SET to confirm, the SV displays 0.0.

Press \wedge and \vee for 5 seconds to quite the Menu Level 2. The tare-weight clearance operation is finished.

8.2 Fine-tune USP

For example, the user weights 50.0KG material, but the instrument displays 49.7KG. Then the user needs to fine-tune the parameter \llcorner .

Fine-tune Formula: **new USP value = standard weight / PV value \times old USP value**

In this example, new USP=50.0/49.7 \times 100.0=100.6

The user needs to set USP=100.6.