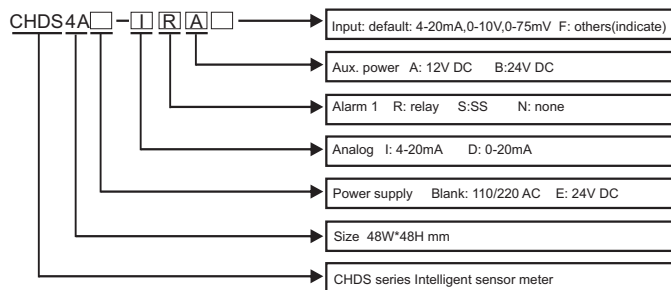


CHDS4A series Universal Input Digital Panel Meter User Manual

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.



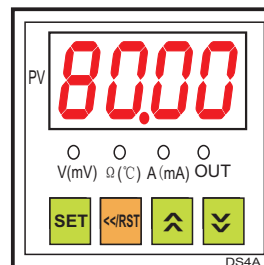
Note Analog output and Alarm functions, you can choose any one of it.

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 is widely used 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	110/20V AC or 24V AC/DC Consumption: $\leq 5VA$
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 the input signal chart
Analog	0-10V/4-20mA set output range by software
Aux. power	12/24V 30mA DC

4. Panel description



PV window: display PV and parameter notation

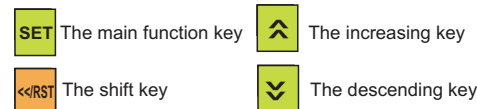
Input Indication lamps:

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

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

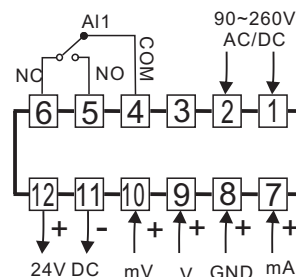
A(mA): signal input lamp ON: A signal flash: mA signal

OUT: output indicate lam., ON: active OFF: inactive

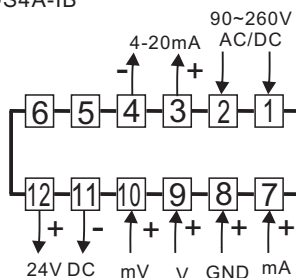


5. Wiring diagram

Model: CHDS4A-RB



Model: CHDS4A-IB



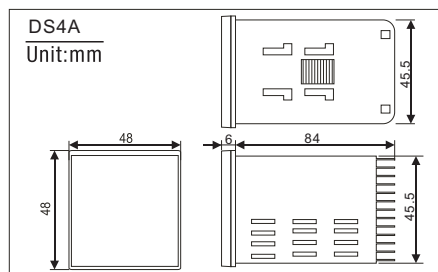
Remark Above is a general wiring diagram. Please always refer to the connection diagram on the side of the controller.

Input signal chart

Input signal	Temp range	Input impedance	Factory set
mA	0~1mA, 0-10mA, 4-20mA	$\leq 150 \Omega$	4-20mA
V(AV/DV)	0~5V, 0-10V, 0-500V	$\leq 200K \Omega$	0-10V DC
mV	0-10mV, $\pm 100mV$	$\leq 2M \Omega$	0-75mV
RT	0-400 Ω , 0-10K Ω	$\leq 0.2mA$	0-400 Ω
	Cu50, Cu100 -50-150 $^{\circ}C$		Indicate when order
PT	-200-650 $^{\circ}C$	$\leq 0.2mA$	Pt100
10V	-10V~10V	$\geq 200K \Omega$	10V
5V	-5V~5V		
20mA	$\pm 4mA \sim 20mA$		
0.2V	-0.2~0.2		

Remark the factory setting of the input signal is 4-20mA, 0-10V, 0-75mV. If the customer needs other signal input, please contact the manufacturer or the local distributor.

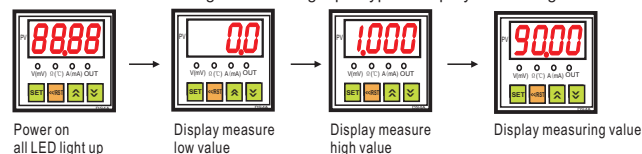
3. Size and mounting



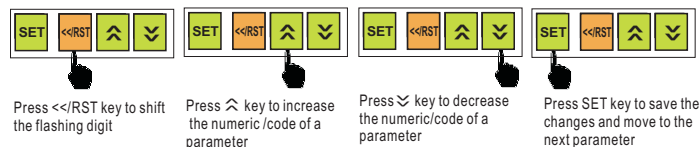
6. Setting and programming

6.1 Power on initialization

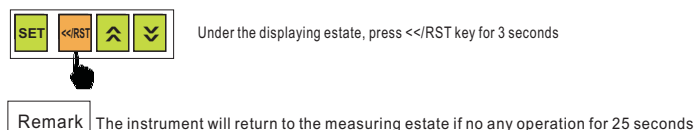
Power on for self-checking and showing input type & display value range.



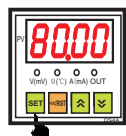
6.2.2 How to configure all configurable parameters



6.2.3 Zero point clearance



7. Parameter menu



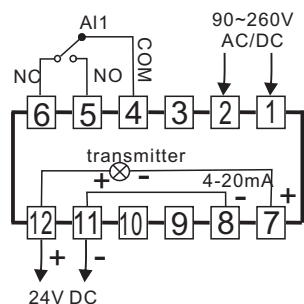
Press SET for 3 seconds to enter the parameter setting menu

Notation	Name	Description	Default	Remark				
	Alarm 1 value AL1	$LSP \leq AL1 \leq USP$	100.0	Alarm value for alarm 1				
	Alarm 1 mode AM1	H, L	H	H: High alarm L: Low alarm				
	Alarm hysteresis for alarm 1 HY1	-50 to 50	1.0	Hysteresis value for alarm 1				
	Offset value PVF	-50 to 50	0.0	PV value= measuring value - PVF				
 Input sensor code selection INP								
Symbol		μ	J	E	t	r	S	b
input		K	J	E	t	r	S	b
Symbol		Pt	rt	mV	A	V	mA	
input		Pt100	rt	mV	A	V	mA	
	Low display value LSP	-1999 ~ 9999	0.0	PV low limit display value				
	High display value USP	-1999 ~ 9999	100.0	PV high limit display value				
	Decimal point dP	0000,000.0 00.00,0.000	000.0	PV decimal point				
	Transmission output lower limit TrL	$LSP \leq TrL \leq USP$	0.0	Display for re-transmission at low limit value				
	Transmission output high limit TrH	$LSP \leq TrH \leq USP$	100.0	Display for re-transmission at high limit value				
	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				

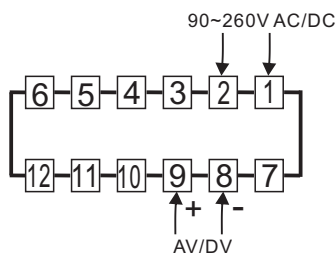
Remark The parameter values showed on this menu are the factory setting values.

8. Application examples

1. Connection 2-wire pressure transmitter, request supply DC 24V/22mA auxiliary power, and have relay output, softwareselect mA input.



2. Measure AC DC voltage input connection, example 600V AC, 500V DC



3. Measure AC DC current input connection, example AA5A, DA5A

