

Aposun CHDS4A Series Universal Input Digital Panel Meter User Manual

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Aposun CHDS4A Series Universal Input Digital Panel Meter



Product Information

The CHDS4A series Universal Input Digital Panel Meter is a versatile instrument that can accept various types of signals including 4-20mA, 0-10V, 0-75mV, TC/RTD, and load cell. It is widely used in different applications such as temperature, pressure, weighting, resistance, current, and voltage measurement. This digital panel meter also provides 20-stage programmable settings for non-linear input. The input, output, and power supply are isolated from each other which ensures safety and accuracy in measurements. The instrument has a model number CHDS4A and comes in a standard size of 48W*48H mm. It features a universal input type with default input options of 4-20mA, 0-10V, and 0-75mV. The user can choose other input options by specifying them during ordering. The instrument has two options for aux power supply, 12V DC or 24V DC. There are three options for the alarm function – relay, solid state (SS), or none. The instrument also has an analog output function that can be chosen along with the alarm function.

Product Usage

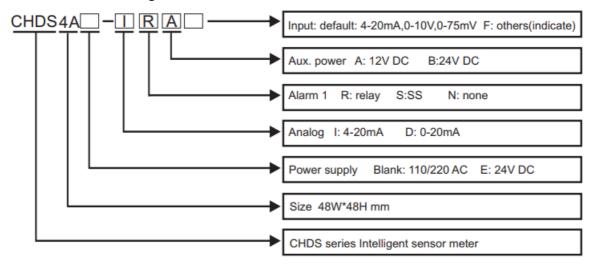
Before using the CHDS4A series Universal Input Digital Panel Meter, it is essential to read the user manual carefully to understand its features and functions. Here are the steps to use the instrument:

- 1. Connect the power supply according to the specifications mentioned in the manual.
- 2. Select the input type that matches your signal source.
- 3. If your signal is non-linear, set up the 20-stage programmable settings as per your requirement.
- 4. Select the analog output or alarm function that suits your application.
- 5. Once all functions are set up correctly, start measuring the signal.

It is important to note that the input, output, and power supply are isolated from each other, ensuring safety and accuracy in measurements. If you face any issues or have any questions about the instrument's usage, please refer to the user manual or contact the manufacturer for assistance.

First of all, thank you for using our qualified products. Please read this manual carefully before use so that you

Model number and ordering info



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

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.

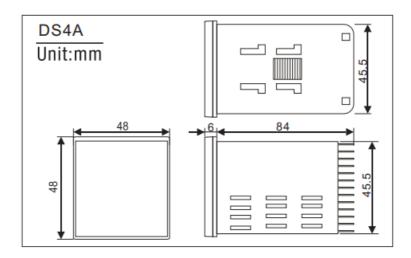
Power supply	110/20V AC or 24V AC/DC Consumption: ≤5VA				
Accuracy	0.3%F.S ±2 digits				
Sampling speed	≤8 times/sec.				
Alarm	Relay, 250V/3A AC or 30V/3A DC cos =1				
Input	refer to the input signal chart				
Analog	0-10V/4-20mA set output range by software				
Aux. power	12/24V 30mA DC				

Input signal chart

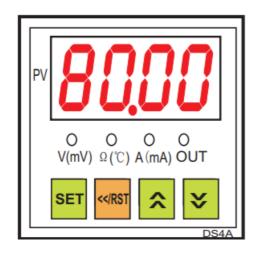
Input signal	Temp range	Input impedance	Factory set		
mA	0~1mA,0-10mA, 4-20mA	≤150Ω	4-20mA		
V(AV/DV)	0~5V, 0-10V,0-500V	≤200ΚΩ	0-10V DC		
mV	0-10mV, ±100mV	≤2MΩ	0-75mV		
RT	0-400Ω, 0- 10ΚΩ	≤0. 2mA	0-400Ω		
	Cu50, Cu100 -50~150°C	50. ZIIIA	Indicate when order		
PT	-200~650°C	≤0. 2mA	Pt100		
10V	-10V ~ 10V				
5V	-5V ~ 5V		10V		
20mA	±4mA~ 20mA	≥200KΩ			
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.

Size and mounting



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

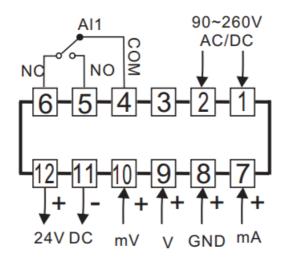
• OUT: output indicate lam,:

ON: activeOFF: inactive

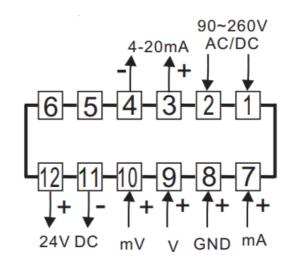


Wiring diagram

Model: CHDS4A-RB



Model: CHDS4A-IB

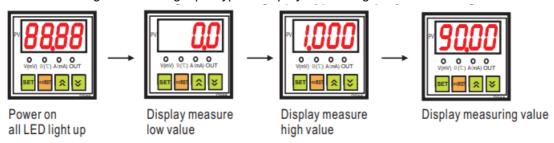


Remark: Above is a general wiring diagram. Please always refer to the connection diagram on the side of the controller.

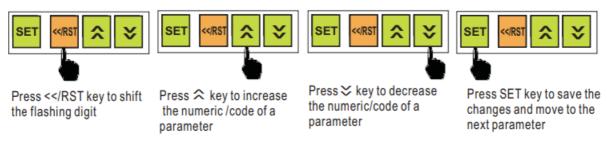
Setting and programming

Power on initialization

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



How to configure all configurable parameters



Zero point clearance



Remark: The instrument will return to the measuring estate if no a ny operation for 25 seconds

Parameter menu

Press SET for 3 seconds to enter the parameter setting menu

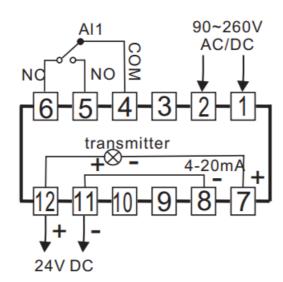


	ı				1				
Notation	Name		Description	Default	Remark				
8888	Alarm 1 value AL1		LSP≤AL1≤USP	100.0	Alarm value for alarm 1				
8888	Alarm 1 mode AM1		H,L	н	H: High alarm L: Low alarm				
8838	Alarm hysteres	sis for alarm 1 HY1	-50 to 50	1.0	Hysteresis value for alarm 1				
898	Offset value PVF		-50 to 50	0.0	PV value= measuring value - PVF			/F	
BHnP	Input sensor code selection INP								
	Symbol		J	Е	Ł	٦	5	Ь	
	input K		J	Е	t r		S	b	
	Symbol PE rE TU R				11	28			
	input	Pt100	rt	mV	A		mA		
	Input	1 1100				v	ША		
ELSP	Low displa		-1999 ~ 9999	0.0	PV low limit display value				
BUSP	High displa		-1999 ~ 9999	100.0	PV high I imit display value				
8888	Decimal p	oint	0000, 000.0 00.00,0.000	0.000	PV decimal point				
Brl	Transmission output lower limit TrL		LSP≤trL≤USP	0.0	Display for re-transmission at low limit value				
BrX	Transmission output high limit TrH		LSP≤trH≤USF	100.0	Display for re-transmission at high limit value				
8868	Lock pas LCK	ssword	0~999	000	LCK=010, the menu level 1 can be read only LCK=000, the menu level 1 can be modified				

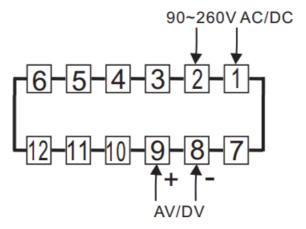
Remark: The parameter values showed on this menu are the factory setting values.

Application examples

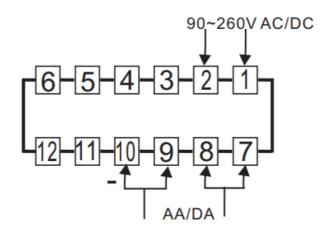
1. Connection 2-wire pressure transmitter, request supply DC 24V/22mA auxiliary power, and have relay output, softwareselect mA input.



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



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



Documents / Resources



Aposun CHDS4A Series Universal Input Digital Panel Meter [pdf] User Manual CHDS4A Series Universal Input Digital Panel Meter, CHDS4A Series, Universal Input Digital Panel Meter, Digital Panel Meter

Manuals+,