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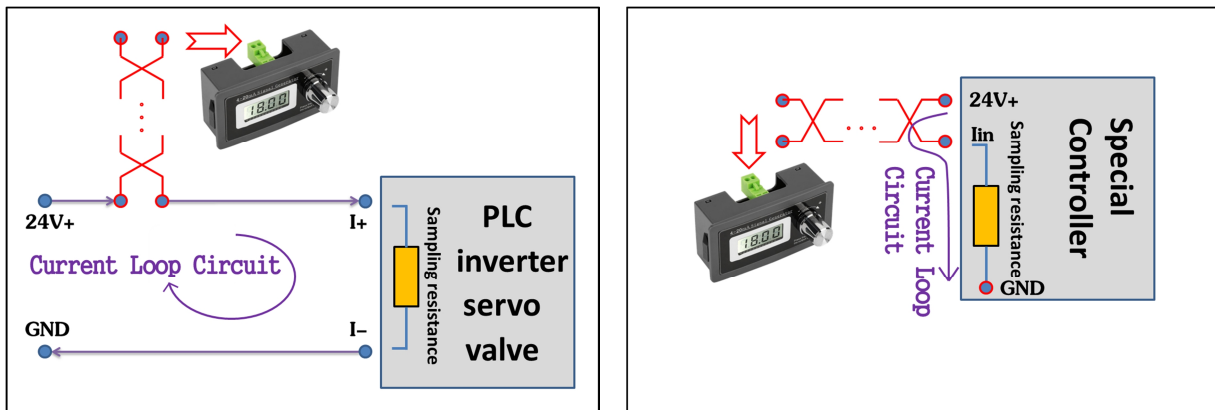
4-20mA Current Loop Signal Generator Manual

Model : IPDD420

1 Technical indicators:

- 1.1 Power supply voltage: 15V---30V;
- 1.2 Output range: 4-20mA/3-21mA;
- 1.3 Display mode: Real Current / 0-100.0%/ 0-50.0Hz;
- 1.4 Sampling resistance: Less than 500 ohms;
- 1.5 Output accuracy: $\pm 0.5\%$; Display accuracy: 0.01;

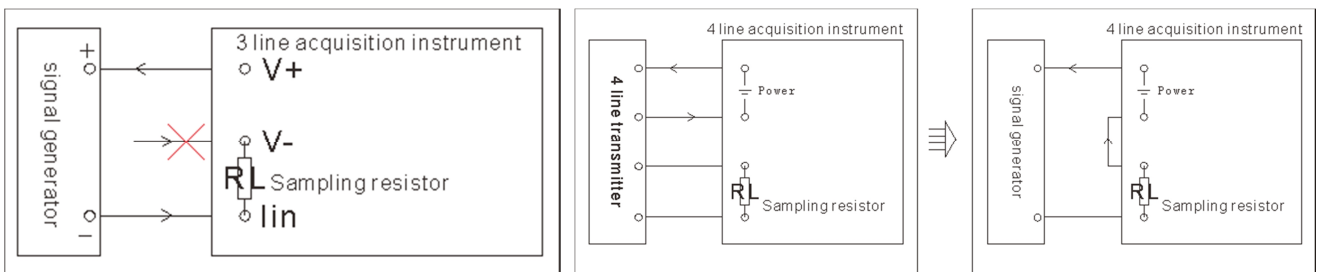
2 Wiring diagram (Working Principle of Current Loop):



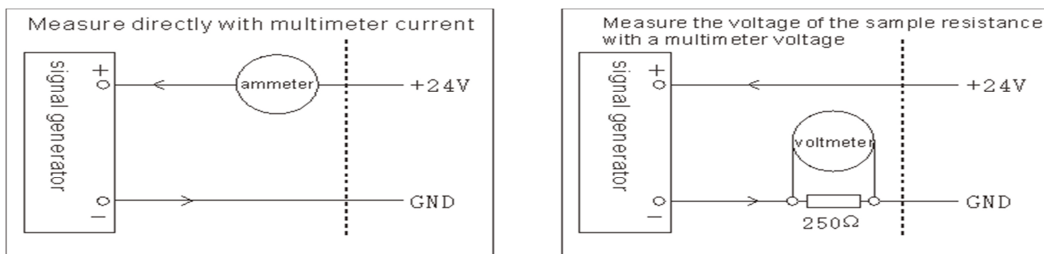
Two connection terminals are non polarity;

Anyway wiring, the principle is to generate a current loop circuit.

This signal generator can use 4-20mA to generate voltage and control the current in the circuit.



3 Simple test chart:



4 Dimension diagram:



5 System operation:

5.1 **Parameter Settings:** (Rotate one grid clockwise is “+” Rotate one grid counter-clockwise is “-”, Press the knob. is “Confirm”)

5.1.1 Press and hold the knob for 2 seconds to enter the parameter setting, Display parameter number “F001”, Then press " Confirm ", to Set the value of parameter "F001", =0 is coarse tuning; =1 Fine tuning; Then press " Confirm " to save its value;

5.1.2 When the parameter number "FXXX" is displayed, “+” “-” Rotation modification parameter number; Enter the password first “+ - +” To enter the F002 parameter; Enter the password first “+ - + -” To enter the F100 parameter; Enter the password first “- + - +” To enter the F200 parameter;

Parameter table 1: Entering F002-F007 (System Settings) requires a password “+ - +” first

index	designation	comments	default
F001	Output mode	0: Coarse tuning mode, "F004" How many turns to rotate 1: Fine tuning mode, "F005" How many turns to rotate 2: Quick Output (Many products only need to validate a few values and test quickly in production.) 3: Automatic Curve Output (Be used for aging products) (Mode2、3 need to set parameters" F100" "F200" >0 first)	0
F002	Output range	0:4-20mA 1:3-21mA	0
F003	Display mode	0: Real Current 1: 0-100.0% 2: 0-50.0Hz	0
F004	Add and sub value for coarse tuning mode	1-50 Addition and subtraction for each pulse, No decimal point concept (1-50)×10	1
F005	Add and sub value for fine tuning mode	1-50 Addition and subtraction for each pulse, No decimal point concept (1-50)	1
F006	Automatic save of Adjustment value	0: Not automatically saved (Need to press " Confirm " to save) 1: Automatic save	0
F007	calibration	-100 -- +100 (be cautious in revising, about 20mA±4mA)	

Parameter table 2: Entering F100... (Quick Output Settings) requires a password “+ - + -” first

index	designation	comments	default
F100	Number of Quick	0: Not Used 2-9: Point number	0
F101 ...109	Output value of 9 points	Range:3.00-21.00mA Must be“F100”>0	

Parameter table 3: Entering F200... (Curve Output Settings) requires a password “- + - +” first

(Each curve has 3 parameters, “FtXX” Run time “FAXX” Start current “FbXX” End current)

index	designation	comments	default
F200	Number of curves	0: Not Used 1-9: Segment number	0
Ft01	Section 1 Run time	0-999 sec. Must be“F200”>0	
FA01	Section 1 Start current	3.00-21.00mA	
Fb01	Section 1 End current	3.00-21.00mA	
Ft02	Section 2 Run time	0-999 sec.	
...	...	...	
Fb09	Section 9 End current	3.00-21.00mA	

5.1.3 Examples of Automatic Curve Output Setting:

