

D800 General Force Measurement Instrument User Manual



Quick Acquisition filtering Nonlinear correction scale conversion Upper power supply and zero clearance
 Auto-Zero Manual cleaning (key / communication) Creep tracking Sensor overrun record Inin adding Inand
 unloading Touch the key with the key lock Picture is programmable

Preface

Thank you very much for choosing our company's products! This manual contains product warnings, precautions, technical features, functional characteristics, packaging and appearance, installation and wiring, menu structure, working mode, communication instructions, parameter table, warranty instructions, product selection, etc. In order to keep the product working best for a long time, please read the operation manual carefully and keep it properly for any review before use.

The contents of this manual shall not be reproduced or reproduced without the permission of the Company.



warn

- Over the environmental conditions will affect the measurement indicators and life of the instrument, and cause permanent damage!
- The installation, commissioning and maintenance of this product shall be conducted by qualified engineering and technical personnel.
- The Company shall not bear any direct or indirect loss other than the product itself.
- The Company reserves the right to change the product specification without notice.

pay attention to

- Do not use them on devices such as atomic energy devices and life-related medical devices.
- All input and output signal lines of this product, please set an appropriate surge suppression circuit to prevent surges.
- To prevent instrument damage and prevent machine failure, install appropriate safety circuit breaker devices on the power cord or input / output line connected with this instrument
- Do not mix metal sheets or wire chips into this product or it may cause electric shock, fire or failure
- Do tighten the terminal screws, if not fully tightened, may cause electric shock, fire
- Always clean again after the power is cut off
- When cleaning, please wipe the dirt from this product with a dry soft cloth. Please do not use moisture absorption agents. Otherwise, it may cause deformation or



discoloration

- Do not rub or tap the display section
- Installation, commissioning and maintenance of this product shall be conducted by qualified engineering and technical personnel



D800 General force measuring instrument use manual
catalogue

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1. qualification

- Measurement channel: 5V power supply, measurement accuracy above 0.1%, measuring speed of 5-200Hz, temperature drift is less than 10ppm.
- Display Scale: Measurement display-99999~999999.
- Transmission and output:0-10V, 4-20mA, Voltage output load greater than10k, Current output load is less than500Ω.
- Communication rate:2400~256000.
- AD Conversion:32-bit AD precision acquisition.
- Switch output: standard 2 circuits (optional 6 circuits) relay open node output, node drive capacity 3A/250VAC or 30VDC(resistance load).
- Switch input: 2 open, IN1 and IN2 drop-down. Use a 0C or a passive node drive.
- Supply voltage:10-30V DC.
- Working environment:-20~70℃, relative humidity<90%(No dew).

2. functional characteristics

- Measurement function. The proportional measurement method is adopted. Rapid acquisition, filtering, scaling transformation, nonlinear correction and display of the measurement signal.
- Upper and lower limit comparison function.
- Peak and valley value capture function.
- With upper power zero, manual zero (key, communication), automatic zero.
- Zero-bit tracking and creep tracking capabilities.
- Sensor overrun record.
- Optional isolated RS485 communication for Modbus-RTU and proactive delivery protocol.
- Optional isolated type delivery output. Support voltage output of 0-10V, and 4-20mA current output.
- Dual row display, 6 bit main display and 8 bit auxiliary display, 6 bit LED display unit.
- Capacitive touch key, with key lock function.
- Add the screen programmable display.

3. Packaging and appearance

3.1Boacking contents



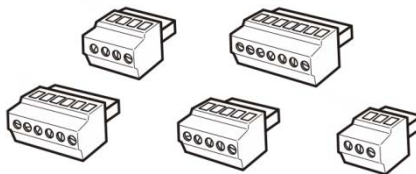
Instrument specification



certificate

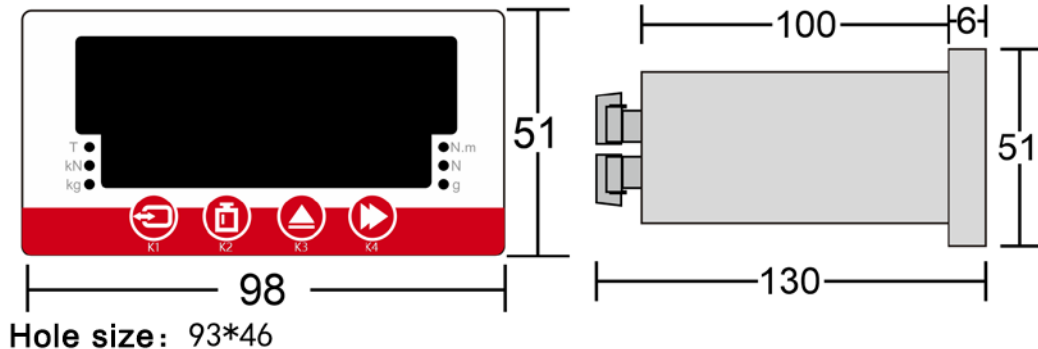


800W



binding post*5

3.2 Holddimension drawing



4. Installation and wiring

This section describes the precautions for instrument wiring and is important related to safety.

Please connect as operating on the content.

 pay attention to

Do not connect the signal output input terminals directly to the AC220V power supply.

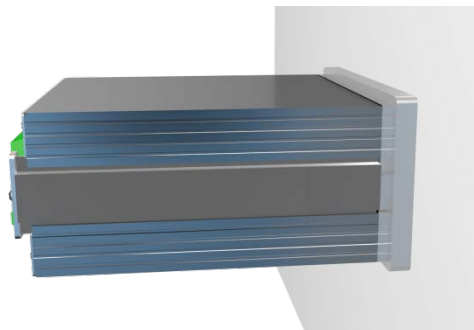
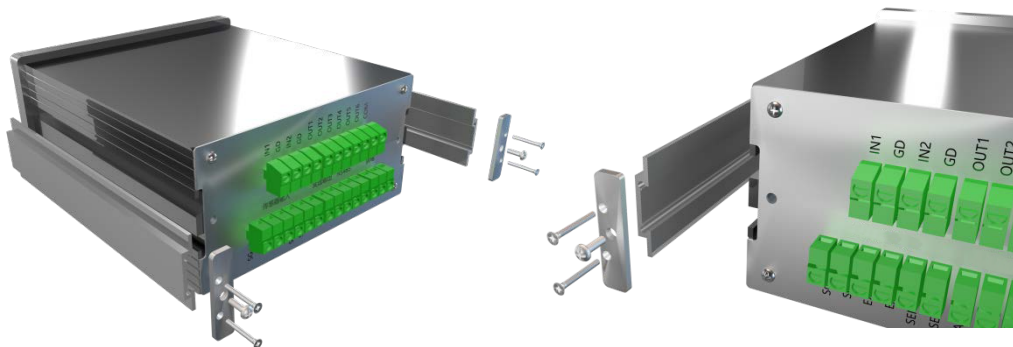
Please connect the corresponding terminal cable

Connect the signal output input terminal without the power supply to avoid electric shock.

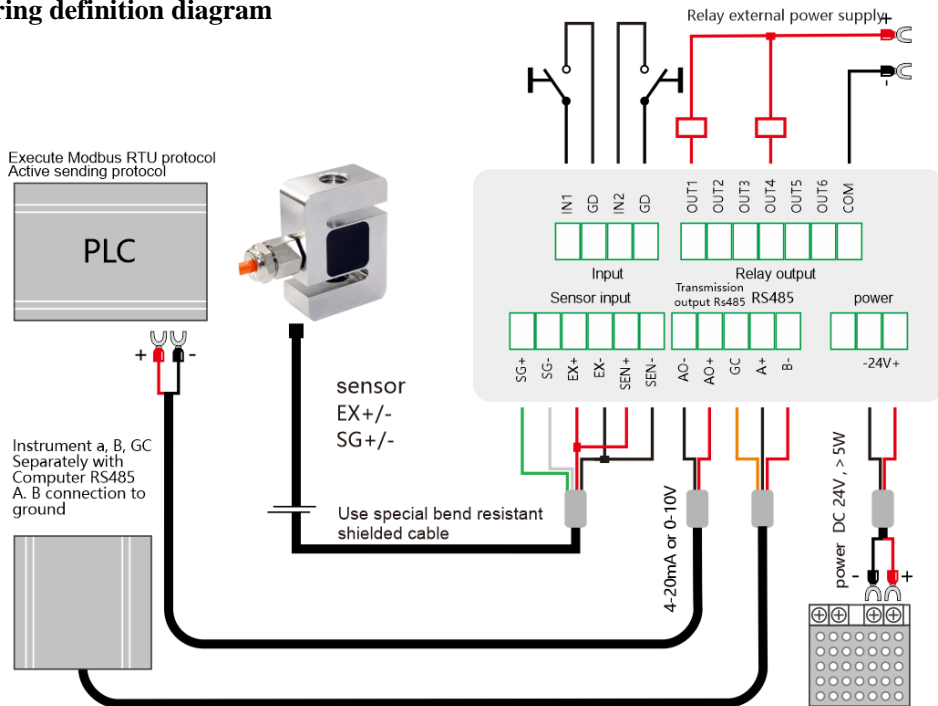
Note that you use the DC24V power supply.

Note that carefully verify the terminal line before turning power on.

4.1 Installation Schemram



4.2 Wiring definition diagram



5. Menu Structure

5.1 Main picture description



Key lock: Press the K1 key five times to unlock

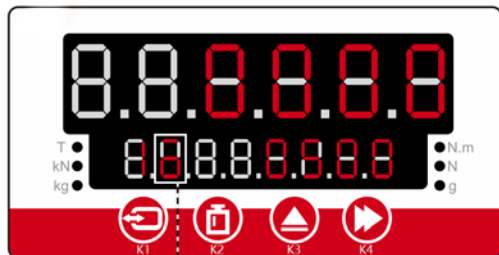
Previous icon indicates the key locked status
Next icon indicates the key to unlock



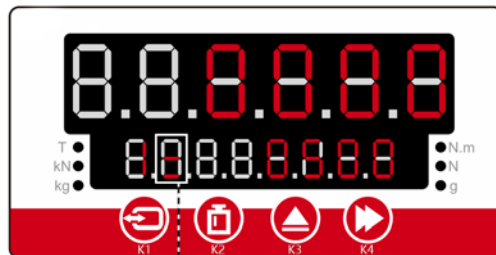
: Indicates that the key is locked



: Presentation key unlock



Lock the screen status



Unlocked Status

5.2 Key Description

key	K1	K2	K3	K4
key frame	Long fy parameter parameter parameter parameters	Long press the entry calibration	page turning	Long press to press the zero clearance
Parameter modification	Save and go to the next parameter	quit	add	right shift
demarcate	Out	Caliation factor		zero clearing
interface testing	Select the Next Function	out	Output modification	select

5.3 Main interface introduction

Main interface 1



Real-time value
Displays the fixed value that is closest to the real-time value
"1" indicates the constant value 1

Main interface 2



Real-time value
"do" switch output status is the first line from the left

Main interface 3



Real-time value
Fu indicates the peak value

Main interface 4



Real-time value
"vv" Specifies the valley value

Main interface 5



Real-time value
"dA" converts the output code value

Main interface 6



Real-time value
"Ad" simulates the input code value

Main interface 7



Real-time value
"St"-S indicates that the memory is writing to the running state

Interface 1: Real-time value

Display of the custom '1' closest to the real-time value indicates a fixed value 1

Interface 2: Real-time value

"do" switch two output status from left for the first road

Interface 3: Real-time value

"Fu" peak value

Interface 4: Real-time value

"vv" valley

Interface 5: Real-time value

"dA" Transmission and transmission output code value

Interface 6: Real-time value

"Ad" Analog input code value









Interface 7: Real-time value

"St" -S means that the memory is writing a later digital running state

5.4 Calibration Method

There are three kinds of calibration methods: 1. Weight weight calibration 2. coefficient calibration
3. Digital calibration;

1 Weight calibration Note: during calibration, the instrument display value should be greater than the integer 100 (ignore the decimal point).

- ① When unlocked, press K2 for a long  Release in two seconds, display CAL 00000 Enter password status (no password) Press K2  confirm;
- ② Zero-point calibration: enter the calibration status, prompt information “K4 - ZERO / K2 - CAL” Cycle, with no load K4  Peel and clear-up;
- ③ Weight calibration: Place the weight or known object, waiting for the weight or known object to stabilize, press K2  Only to enter the modified weight status, press K3  and K4  After modification to weight weight, press K2  confirm, K1  out;

2 Coefficient calibration

- ① Coefficient calibration calculation formula = Weight Weight / Display weight * E0 47 Default values;
- ② Value derived from the formula is entered into the E0 47 range coefficient parameter;

3Digital calibration

- ① E0 48=Input sensor sensitivity (default 2.0000mV/V);
- ② E0 51=Input the sensor total range;
- ③ E0 26=Enter 40 to confirm that step 1,2 is valid;


Transmission output instance:



For example: sensor measuring 1000kg, transmitting output 10V or 20mA at weighing full load.





- ① Enter the E0 27 rating range, enter the sensor range 1000;
- ② Enter the E0 52 DA0 transmission zero, modify the size of this parameter value, adjust the transmission zero, observe whether the multimeter voltage or current changes to 4mA or 0V;, and continue to resize this parameter value if not reached;
- ③ Enter the E0 53 DA1 feed degree, modify the size of this parameter value to observe whether the multimeter changes to 20mA or 10V, Continue to resize the parameter value; when the sensor weighs 500kg, the A0 and AG terminals outputs 5V or 12mA.



5.5 Functional Operation

- Lock-up-screen function
- The instrument is at the measurement interface and will automatically lock without buttons within 60 seconds to prevent false trigger. The key lock icon is displayed on the instrument , Lower-left position. Five consecutive K1 keys to unlock.
- Password function
- Normal password =00000, corresponding to the normal parameters.
- Advanced password =00001, for advanced parameters. Modify parameters.

Long Press K1  Three-second entry of the parameters, K4  Entry parameters.

K3  Is the current bit plus1, K4  Yes to Move Right, After modifying the parameter value. press K1  Save to switch to the next parameter, and then press K2  out.

- Zero-clearance function

There are three ways of zero instrument: key zero, open zero, communication zero;

1. manual zero: clear K4 for three seconds under the unlock state. When the measured value is greater than the quantitative range, it cannot be cleared, and the upper limit of the quantitative range needs to be adjusted.

2. Open zero: E0 29 opens definition =01, and one second after connecting IN1 and GD.
 3. Communication zero: write the communication address 0FB8 to A (see communication example for details).
- Automatic zero clearance function
 1. opens the automatic zero clearance function;
 2. The current value is greater than the trigger threshold;
 3. The current value is less than the trigger threshold after unloading;
 4. And the zero clearance range is greater than the current value;
 5. The stay time after unloading is greater than the set automatic zero clearance delay time;
 6. Automatic zero clearance trigger, the instrument to achieve automatic zero clearance;

6. operate mode; operation mode; working

- Power-on display 800-1 is in the normal working mode with an initial value of 7521.
- Power on display 800-2 is peak valley operating mode with initial value of 43. Note
“(Recalibration)”



6.1 800-1 General working mode: E0 26 input 11

Under normal working mode: upper and lower limit comparison, opening comparison and interval comparison;

- ① Upper and lower limit comparison mode: E0 29 open in definition =01

When the measurement value exceeds the trigger limit, the switch amount out1-out4 output.

- ② On Comparcomparison: E0 29 Open definition =31

Start comparison processing when measurement value exceeds trigger threshold, IN2 and GD on, switch amount out1-out4 output.

- ③ Interval comparison method: E0 09 comparison method =1212

Comparison value 1= Lower Limit Comparison value 2= starts interval comparison processing when the measured value exceeds the trigger threshold.

out1 output =out2 output



Comparison value 3= Lower limit comparison value 4= starts interval comparison processing when the measured value exceeds the trigger threshold.

out3 output =out4 output

6.2 800-2 Peak and valley value working mode: E0 26 input 12

In peak and valley working mode: upper and lower limit peak comparison and open peak comparison.

3.2.1 upper and lower limit peak comparison mode: E0 29-in definition =01

K3 key switches Pv(peak), vv(valley value) status, when the measured value exceeds the trigger threshold and triggers the switch output.

3.2.2 open in peak comparison mode: E0 29 open in definition =03

K3 key switches Pv(peak), vv(valley value) status. When the measurement value exceeds the trigger threshold, enter IN1 and GND start peak valley value capture state and trigger switch output.

- Switch volume output mode:



① Comparison Value 1= Peak Lower Limit Comparison Value 2= Peak Upper Limit

Peak out2 output Peak =out1 output

② Comparison value 3= valley value lower limit comparison value 4= valley value upper limit

Valley output out4 output =out3 output

7. Communication description

7.1 Setup of the serial port

Instrument with isolated RS485 serial port, suitable for long distance and high reliable communication. Support for two communication protocols, Modbus-RTU protocol (subsystem) and ASC active upload (parameter 31)。

Default factory setting of instrument: 19200 baud rate, 01 machine code and no calibration, eight bit data bit and one bit stop bit data format. Modify communication-related parameters and repower again.

7.2 Modbus-RTU protocol

The Modbus-RTU protocol supports the 03 read commands and the 0x10 write commands. Data is a 32-bit Long long integer data or Float floating-point data. Details about Modbus-RTU can refer to



the standard text for Modbus.

Example 1: Read the measurements

order:	<u>01</u>	<u>03</u>	<u>06 06</u>	<u>00 02</u>	<u>24 82</u>
	Machine code	Read the function code	Long length address	Register number	CRC check code
return:	<u>01</u>	<u>03</u>	<u>04</u>	<u>00 00 11 78</u>	<u>F6 41</u>
	Machine code	Read the function code	Number of bytes returned	16. Progressive value	[计] check code

Example 2: Communication clear Write 10 to address 0FB8;

order:	<u>01</u>	<u>10</u>	<u>0F B8</u>	<u>00 02</u>	<u>04</u>	<u>00 00 00</u> <u>0A</u>	<u>38 8A</u>
	Machine code	Write the function code	postal address	Number of registers	Number of Bytes	Data to write to	check code
return:	<u>01</u>	<u>10</u>	<u>0F B8</u>	<u>00 02</u>	<u>C2 F9</u>		

Machine	Write the	postal	Number of	check
code	function	address	registers	code
	code			

Example 3: Communication calibration

- ① Place weights to remain stable, write weight weight 5000 to register 0FB4_ (Here 5000=1388 is, for example, 5000 is decimal and 1388 decimal as written by actual weight.);

Note: The communication command uses all 16 decimal data.

order:	<u>01</u>	<u>10</u>	<u>0F B4</u>	<u>00 02</u>	<u>04</u>	<u>00 00 13</u> <u>88</u>	<u>B5 8E</u>
--------	-----------	-----------	--------------	--------------	-----------	------------------------------	--------------

Machine	Write the	postal	Number of	Number	Data to	check
code	function	address	registers	of Bytes	write to	code
	code					

return:	<u>01</u>	<u>10</u>	<u>0F B4</u>	<u>00 02</u>	<u>02 FA</u>	
---------	-----------	-----------	--------------	--------------	--------------	--

Machine	Write the	postal	Number of	check
code	function	address	registers	code
	code			

- ② Confirm that the write is valid Write 11 to register 0FB8;

order:	<u>01</u>	<u>10</u>	<u>0F B8</u>	<u>00 02</u>	<u>04</u>	<u>00 00 00</u>	<u>F9 4A</u>
						<u>0B</u>	
Machine code	Write the function code	postal address	Number of registers	Number of Bytes	Data to write to	check code	
return:	<u>01</u>	<u>10</u>	<u>0F B4</u>	<u>00 02</u>	<u>02 FA</u>		
Machine code	Write the function code	postal address	Number of registers	check code			

Example 4: Digital calibration

① Write the total sensor range to the sensor range address 0464 (e.g. 5000=1388);

order:	<u>01</u>	<u>10</u>	<u>04 06</u>	<u>00 02</u>	<u>04</u>	<u>00 00 13</u>	<u>4C 13</u>
						<u>88</u>	
Machine code	Write the function code	postal address	Number of registers	Number of Bytes	Data to write to	check code	

return:	<u>01</u>	<u>10</u>	<u>04 06</u>	<u>00 02</u>	<u>A0 F9</u>
Machine code		Write the function code	postal address	Number of registers	check code

② Sensitivity to write sensor at 045E address (2.0000mV/V=4E20);

order:	<u>01</u>	<u>10</u>	<u>04 5E</u>	<u>00 02</u>	<u>04</u>	<u>00 00 4E</u> <u>20</u>	<u>71 A7</u>
Machine code		Write the function code	postal address	Number of registers	Number of Bytes	Data to write to	check code

return:	<u>01</u>	<u>10</u>	<u>04 5E</u>	<u>00 02</u>	<u>21 2A</u>
Machine code		Write the function code	postal address	Number of registers	check code

③ Confirm write valid Write 14 to register 0FB8;

order:	<u>01</u>	<u>10</u>	<u>0F B8</u>	<u>00 02</u>	<u>04</u>	<u>00 00 00</u> <u>0E</u>	<u>39 49</u>
--------	-----------	-----------	--------------	--------------	-----------	------------------------------	--------------

	Machine code	Write the function code	postal address	Number of registers	Number of Bytes	Data to write to	check code
return:	<u>01</u>	<u>10</u>	<u>0F B8</u>	<u>00 02</u>	<u>C2 F9</u>		
	Machine code	Write the function code	postal address	Number of registers	check code		

7.3 Active sending of the protocol

Communication mode 2 is the ASCII code active transmission mode, and the instrument actively sends a 7-bit ASCII code value (including the decimal point and negative display) at the set minimum interval. When the data is less than 6 bits, it is represented in a space (20H), and the last one is a return character (0dH).

Example: 20 30 2E 34 34 38 0D, conversion to decimal is 0.448.

7.4 Communication reliability issues

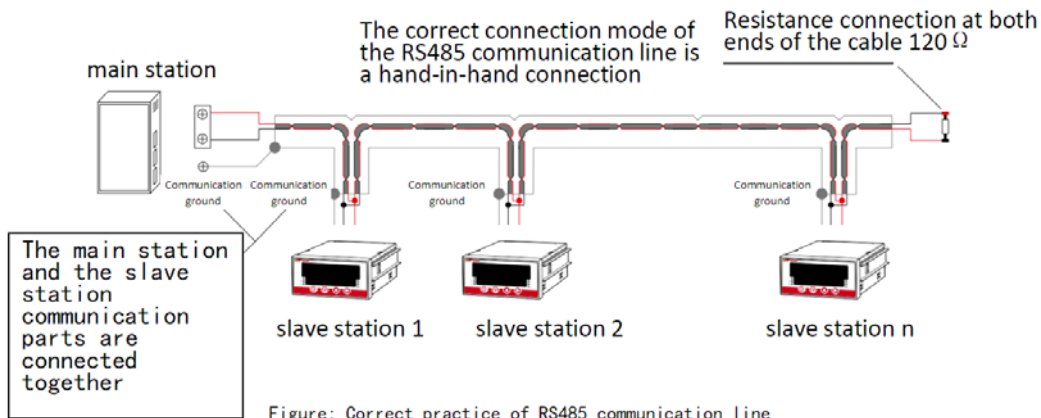
In intelligent equipment, RS485 is one of the common communication methods, but the failure rate of the communication system is also more, there are many reasons, and the reason is not strictly according to the standard



wiring is the main reason. In the design and assembly stage, if it fails to strictly follow the specification wiring, the subsequent problems will be very troublesome. The following figures are the formal wiring and precautions of RS485 communication.

Table: The upper limit of wave rate corresponding to different lengths of common cables.

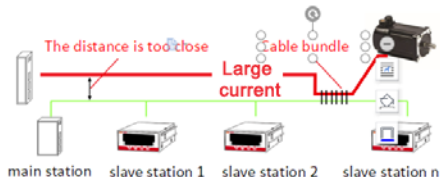
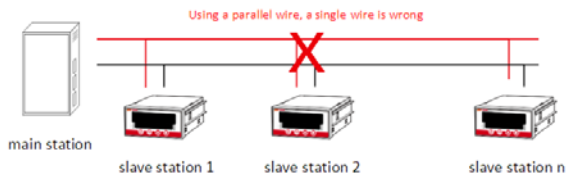
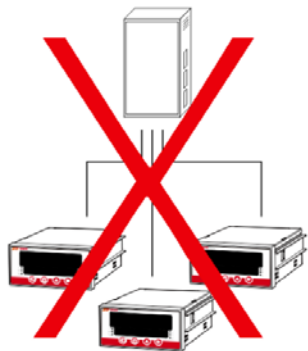
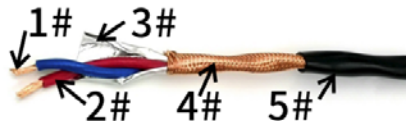
(Increasing the line diameter can increase the communication reliability)



Use of RS485 special communication cable (shielded twisted pair) line diameter is 0.5-1mm²!

ZR-RVVSP/RVSP

1. Multiple anaerobic copper wire strands
2. Insulation layer by full performance package
3. Aluminum foil shielding density > 100%
4. Copper ensof copper density > 80%
5. Full performance package testing sheath



Error wiring line: strong current, parallel and series

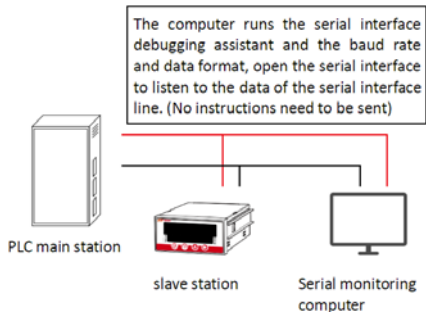
7.5 Communication FAQ

The first time I use the product, I often encounter some customers' communication. You can follow the following steps when check:

- Check the consistent communication wave rate, data format and test position of the main station and all sub-stations. 19200, N81. The main station shall be consistent with the subsystem. Note the communication parameters of the instrument.
- Check whether the communication wiring is normal. Connect the main and sub-stations to A to A,B-to B-.
- Instrument supports multiple communication protocols to check whether the instrument communication protocol is a Modbus-RTU protocol.
- If multiple instruments are connected, the machine code (or communication address) of each instrument cannot be the same, you can set 1,2,...
- If the above items find no problems, it is recommended to monitor the serial port line data through the computer. See the figure below. During the monitoring time, the computer runs any serial port debugging assistant software to observe the data transmitted by the serial port through the software. If the cable is uploaded or sent, PLC does not operate the serial port, if data can be detected, you can further understand the problem by data analysis.
- If the correct instruction sent by the main station can be detected, but it is not returned. Explain that the communication parameters set by the instrument are incorrect, or the instrument is damaged. If the instrument return to monitor data, but PLC does not receive data, maybe PLC is not run enough, the instrument return data too



fast, can be tried by increasing the meter communication packet interval.



If the user is not familiar with the communication instructions, you can send the monitored data to our technical support personnel to assist in the analysis.

If the communication code error rate is high or the communication is intermittent, it may be a system interference problem.

8. parameter list

8.1 Functional parameter table

order number	parameter	span	default value	parameter type	explain
01	comparative value (1)	-99.999-999.999	0.500	General parameters	
02	comparative value (2)	-99.999-999.999	1.000	General parameters	
03	comparative value (3)	-99.999-999.999	2.000	General parameters	
04	comparative value (4)	-99.999-999.999	5.000	General parameters	
05	Gate back block	00 - 50000	20	General parameters	

06	peak time	0.000-50.000	2.000 s	General parameters	Peak capture time length
08	Time lardelay	0.0-60.0	1.0 s	General parameters	Peak and valley value output for valid time length
09	Comparison Mode	Individual bits / one hundred bits=0-2 ; Ten / Thousand digits=0-1;	1110	General parameters	0=lower 1= superior limit 2=siding-to-siding block “ 1110 ” Right to left represents the comparison 1 lower limit , Compare 2.3.4 Upper Limit
10	Trigger the threshold	-99.999-999.999	0.100	General parameters	
13	Upper power zero clearance range	0.000-10.000	0.050	General parameters	
14	Stability	00-1000	05 d	General	Measurement fluctuation

	stability conditions			parameters	range, restart effective
16	Zero-bit trace	00-200	02 d	General parameters	Keep the instrument displayed as zero at no load
17	Primary level filter	0 - 1	0	General parameters	
18	Secondary filtering	00-1100	1010	General parameters	When stable filter is 1, if stable, reach the maximum; The remaining three are filter coefficients not stable or on
19	Automatic zero clearance delay	0.00-500.00	1.00 s	General parameters	
20	Upper power supply and zero	00 - 01	01	General parameters	0= Off 1= Open

	clearance				
41	Automatic zero clearance	00-01	0	General parameters	0= Off 1= Open
42	Auto-Zero Range	00-10000	100 d	General parameters	
43	Creep tracking	00-200	00 d	General parameters	Reduce drift from long measurements
22	unit	01-06	3	Advanced parameters	1=t 2=kN 3=kg 4=N.m 5=N 6=g
23	decimal place	00-03	3	Advanced parameters	"3" stands for 3 decimal places
24	Picture programming	00001-88888	00001	Advanced parameters	Each bits are screen 1, Ten are picture 2, Hundred hundred is picture 3, Millennium position is the picture 4, Ten thousand bits is the picture 5Eight feature options per screen: 1-Fixed-value display

					2-D0export 3-PV peak value 4-VV shelve 5-DA 6-AD 7-ST Operation steps 8-Communication status
26	Multifunction code	0-99	00		11= General Mode 12= Peak mode 20= data backup 30= recovery backup 40= digital calibration
27	Rating quantitative range	0.100-999.999	10.000	Advanced parameters	Input the sensor total range
28	acquisition rate	00-05	3	Advanced parameters	0=6.25 1=12.5 2=25 3=50 4=100 5=200 6=400 7=800 8=1600 9=3200
29	Open	00-44	31	Advanced	See the working mode for

	Defindefinition			parameters	more details
30	Modeling out definition	00-04	1	Advanced parameters	Invalid 0= 1= Real-time measurement value 2. = Communication Control 3= Peak
31	protocol	00-03	1	Advanced parameters	0= None ; 1=ModbusRTU ; 2=Active Send ASC;
32	data format	00-05	0	Advanced parameters	0=N81 1=N82 2=E81 3=E81 4=081 5=082
33	Communication rate	00-08	4	Advanced parameters	1=2400 2=4800 3=9600 4=19200 5=38400 6=57600 7=115200 8=256000
34	Communication machine code	00-128	01	Advanced parameters	stop number

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35	Package ack interval	0.001-9.999	0.010 s	Advanced parameters	Communication interval between transmission and ASCII upload
46	Zero-bit code value	-600000 - 1000000	1000	Advanced parameters	
47	Measing coefficient	10-1999999	10000	Advanced parameters	
48	ransducer sensitivity	0.1000-10.0000	2.0000	Advanced parameters	For digital calibration
49	Hardware fullness	20000-999999	200000	Advanced parameters	2 AD code value for mV/V
50	Hardware Zero Point	-99999-199999	00	Advanced parameters	AD code value for 0mV/V
51	Sensor measuring range	10.0-99999.9	10.000	Advanced parameters	For digital calibration
52	DAO Transfer Zero Point	00 -16383	00	Advanced parameters	

53	DA1 Fulcapacity	00-16383	16000	Advanced parameters	
57	Linear calibration	00-01	0	Advanced parameters	0= Close 1= On
59	Level-I password	00-99999	00	Advanced parameters	
60	Secondary password	00-99999	01	Advanced parameters	
66	Hardware settings	0-222	211	Advanced parameters	AD bit AD selection 1:E-AD1 2:E-AD2 Ten Communication Settings 1 hundreds place; hundreds 1:E-DA1 2:E-DA2
71	calibration point	2.0-999.999	999.999	Advanced	show value (1)



	(1)			parameters	
72	corrected value (1)	0.1000-5.0000	1.0000	Advanced parameters	Correction factor 1= weight value 1 / display value 1
73	calibration point (2)	2.0-999.999	999.999	Advanced parameters	show value (2)
74	corrected value (2)	0.1000-5.0000	1.0000	Advanced parameters	Correction factor 2=weight value 2/ Display value 2
75	calibration point (3)	2.0-999.999	999.999	Advanced parameters	Display values (3)
76	corrected value (3)	0.1000-5.0000	1.0000	Advanced parameters	Correction factor 3=weight value 3/ display value 3
77	calibration point (4)	2.0-999.999	999.999	Advanced parameters	Display values (4)
78	corrected value (4)	0.1000-5.0000	1.0000	Advanced parameters	Correction factor 4= weight value 4/ display value 4
79	calibration	2.0-999.999	999.999	Advanced	Display values (5)

	point (5)			parameters	
80	corrected value (5)	0.1000-5.0000	1.0000	Advanced parameters	Correction factor 5= Weight value 5 / Display value 5
81	calibration point (6)	2.0-999.999	999.999	Advanced parameters	show value (6)
82	corrected value (6)	0.1000-5.0000	1.0000	Advanced parameters	Correction factor 6= Weight value 6 / Display value 6
83	calibration point (7)	2.0-999.999	999.999	Advanced parameters	show value (7)
84	corrected value (7)	0.1000-5.0000	1.0000	Advanced parameters	Correction factor 7= Weight value 7 / Display value 7
85	calibration point (8)	2.0-999.999	999.999	Advanced parameters	show value (8)
86	corrected value	0.1000-5.0000	1.0000	Advanced	Correction factor 8=



	(8)			parameters	Weight value 8 / Display value 8
87	calibration point (9)	2.0-999.999	999.999	Advanced parameters	
88	corrected value (9)	0.1000-5.0000	1.0000	Advanced parameters	
89	calibration point (10)	2.0-999.999	999.999	Advanced parameters	
90	corrected value (10)	0.1000-5.0000	1.0000	Advanced parameters	
91	calibration point (11)	2.0-999.999	999.999	Advanced parameters	
92	corrected value (11)	0.1000-5.0000	1.0000	Advanced parameters	
93	calibration point (12)	2.0-999.999	999.999	Advanced parameters	
94	corrected value	0.1000-5.0000	1.0000	Advanced	



	(12)			parameters	
95	calibration point (13)	2.0-999.999	999.999	Advanced parameters	
96	corrected value (13)	0.1000-5.0000	1.0000	Advanced parameters	
97	calibration point (14)	2.0-999.999	999.999	Advanced parameters	
98	corrected value (14)	0.1000-5.0000	1.0000	Advanced parameters	
99	calibration point (15)	2.0-999.999	999.999	Advanced parameters	
100	corrected value (15)	0.1000-5.0000	1.0000	Advanced parameters	

8.2 Communication Address Table

800-2 (Peak and valley value capture)			800-1 (Upper and lower limit comparison)		
parameter	Float address	Long address	parameter	float address	long address
measured	0X 206	0X 606	measured	0X 206	0X 606

value					
Current Peak	0X 208	0X 608	Comparison value: 1	0X 00	0X 400
Current Valley value	0X 20A	0X 60A	Comparare 2	0X 02	0X 402
Comparison value: 1	0X 00	0X 400	Comparison value: 3	0X 04	0X 404
Comparare 2	0X 02	0X 402	Comparison value: 4	0X 06	0X 406
Comparison value: 3	0X 04	0X 404	Gate back block	0X 08	0X 408
Comparison value: 4	0X 06	0X 406	Comparison Mode	0X 10	0X 410
Gate back block	0X 08	0X 408	Trigger the threshold	0X 12	0X 412
peak time; Tmax	0X 0A	0X 40A	Zero-bit range	0X 18	0X 418
Time lardelay	0X 0E	0X 40E	Stability	0X 1A	0X 41A



			stability conditions		
Trigger the threshold	0X 12	0X 412	Zero-bit trace	0X 1E	0X 41E
Zero-bit range	0X 18	0X 418	Primary level filter	0X 20	0X 420
Stability stability conditions	0X 1A	0X 41A	Secondary filtering	0X 22	0X 422
Zero-bit trace	0X 1E	0X 41E	Delayed clearance	0X 24	0X 424
Primary level filter	0X 20	0X 420	Upper power supply and zero clearance	0X 26	0X 416
Secondary filtering	0X 22	0X 422	Auto-Zero	0X 50	0X 450
Delayed	0X 24	0X 424	ZZero range	0X 52	0X 452

clearance					
Upper power supply and zero clearance	0X 26	0X 426	Creep tracking	0X 54	0X 454
Auto-Zero	0X 50	0X 450			
ZZero range	0X 52	0X 452	Display Unit	0X 2A	0X 42A
			Show decimal decimal	0X 2C	0X 42C
Display Unit	0X 2A	0X 42A	Multifunction code	0X 32	0X 432
Show decimal decimal	0X 2C	0X 42C	Rating quantitative range	0X 34	0X 434
Multifunction code	0X 32	0X 432	picking rate	0X 36	0X 436
Rating quantitative	0X 34	0X 434	Open Defindefinition	0X 38	0X 438



range					
picking rate	0X 36	0X 436	Find the definition	0X 3A	0X 43A
Open Defindefinition	0X 38	0X 438	protocol	0X 3C	0X 43C
Find the definition	0X 3A	0X 43A	data format	0X 3E	0X 43E
protocol	0X 3C	0X 43C	Communication rate	0X 40	0X 440
data format	0X 3E	0X 43E	postal address	0X 42	0X 442
Communication rate	0X 40	0X 440	Package ack interval	0X 44	0X 444
postal address	0X 42	0X 442	Zero-bit code value	0X 5A	0X 45A
Package ack interval	0X 44	0X 444	Measing coefficient	0X 5C	0X 45C
Zero-bit code	0X 5A	0X 45A	sensitivity	0X 5E	0X 45E



value			coefficient; sensitivity ratio		
Measing coefficient	0X 5C	0X 45C	LIN1	0X 60	0X 460
sensitivity coefficient;	0X 5E	0X 45E	LIN0	0X 62	0X 462
LIN1	0X 60	0X 460	Sensing and measuring range	0X 64	0X 464
LIN0	0X 62	0X 462	DA0	0X 66	0X 466
Sensing and measuring range	0X 64	0X 464	DA1	0X 68	0X 468
DA0	0X 66	0X 466	Linear calibration	0X 70	0X 470
DA1	0X 68	0X 468	Level-I password	0X 74	0X 474
Linear	0X 70	0X 470	Secondary	0X 76	0X 476



calibration			password		
Level-I password	0X 74	0X 474	Hardware settings	0X 82	0X 482
Secondary password	0X 76	0X 476			
Hardware settings	0X 82	0X 482	DA code value		0X6A0
			Caliated weight		0X FB4
DA code value		0X 6A0	Communication command		0X FB8
Caliated weight		0X FB4	Instrument model	5000	
Communication command		0X FB8	Hardware Version Number	5002	
Instrument model	5000		Software Version Number	5004	
Hardware	5002		manufacturing	5006	



Version Number			No.		
Software Version Number	5004		Production batch number	5008	
manufacturing No.	5006		reserve	5010	
Production batch number	5008				
reserve	5010				

Communication command function code.

Write different data to the Communication Command address (FB8) for different functions

Write 10 for manual zero clearance: 01 10 0F B8 00 02 04 00 00 00 0A 38 8A

Write 11 range calibration (write to FB4H weight type long): 01 10 0F B8 00 02 04 00 00 00 0B F9 4A

Write 12 Hardware Full Save: 01 10 0F B8 00 02 04 00 00 00 0C B8 88

Write 13 Hardware Zero Point Save: 01 10 0F B8 00 02 04 00 00 00 0D 79 48

Write 14 for digital calibration: 01 10 0F B8 00 02 04 00 00 00 0E 39 49

Write a 15-parameter backup: 01 10 0F B8 00 02 04 00 00 00 0F F8 89

write in 20 write in TEDS: 01 10 0F B8 00 02 04 00 00 00 14 B8 82

write in 21 fetch TEDS: 01 10 0F B8 00 02 04 00 00 00 15 79 42

9. Warranty Description

The whole product shall be guaranteed for one year from the date of sale. If found during the warranty period, contact us in time and shall not remove it by itself, otherwise the company has the right to reject the warranty.

- Fee repairs shall be made in one of the following cases:
 - 1、Products with of warranty.
 - 2、Damaged due to transportation, poor storage or failure to operate as required in the instructions.
 - 3、Self-removed products or repaired without our warranty points.
 - 4、Products without product number or warranty inconsistent with or altered product number.
 - 5、Damage not caused by product quality during the warranty period.

10. product types choosing

Item Number	product name	Simple description of the product function	major function	remarks
50080001	D800 General force measuring instrument	800- standard configuration(dynamometry DC24V)	Simple comparison, peak capture	
50080002	D800 General force measuring instrument	800- standard configuration(dynamometry DC24V)+Transmission board	Simple comparison, peak capture	
50080003	D800 General force measuring instrument	800- standard configuration(dynamometry DC24V)+Communication board	Simple comparison, peak capture	
50080004	D800W Universal weighing controller	800W standard configuration(weigh DC24V)	Reduction control, packaging, and ingredients	
50080005	D800W Universal weighing controller	800W standard configuration(weigh	Reduction control, packaging, and	



		DC24V)+Transmission board	ingredients	
50080006	D800W Universal weighing controller	800W standard configuration(weigh DC24V)+Communication board	Reduction control, packaging, and ingredients	