Force value weight acquisition instrument

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said

Clear

蚌埠知重仪器销售有限公司BENGBUZZYQ

book

V1.00

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Safety tips

1. This product has a unique anti-interference design and filtering algorithm, so be sure to ground reliably and separate from the AC ground wire.
2. Ensure use in an environment that complies with the technical specifications of this product.
3. Avoid direct sunlight.
4. Personnel with corresponding professional knowledge and safe operation should be responsible for the installation, wiring and maintenance of this product.
5. It is strictly forbidden to open the chassis with electricity.

Technical indicators

Display: Dual 5-digit segment tube display
Working power supply: DC10-28V, AC85-265V (rated 100-240V, 50/60HZ), wide voltage power supply, choose one
Load capacity: 8 x 350Ω sensors
Signal range: 0.5~2.4mV/V
Excitation voltage: 5V
Internal resolution: 24-bit ∑-ΔADC, internal resolution 1/1000000
Display resolution: 1/100000
Nonlinearity: 0.005% F.S
Maximum power consumption: 3W
Operating temperature: -25-+45°C
Relative humidity: <85%RH
Weight: about 300g
Overall dimensions: 96×48×81.5mm (control cabinet cut-out size 91×45mm)

Display window and buttons



- Dual five-digit display window, the main screen displays the net weight, and the secondary screen displays the setting parameters, total weight, peak, and unit.

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: Enter the menu/go back to the previous level, **long press to enter the decimal point selection interface**.

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: Enter the calibration interface, move the cursor, move the main menu interface and parameter selection screen down, and **long press to enter the zeroing option**.

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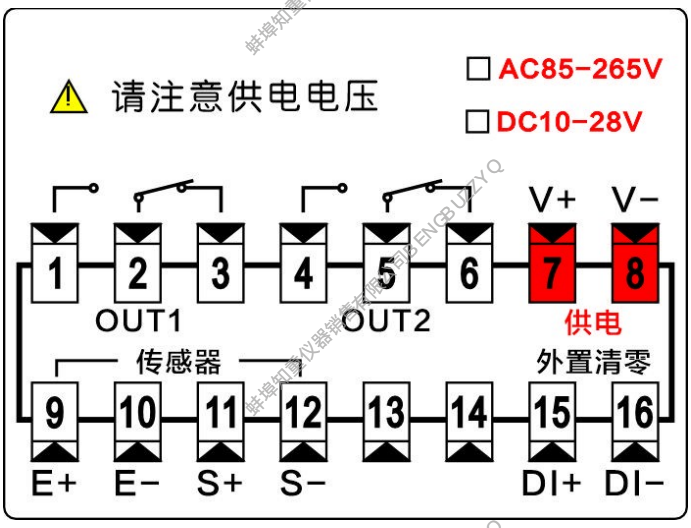
: Change the menu, increase the value, and **long press to enter the peeling option**.

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: The menu interface is the confirmation menu, the display interface is the second window display, unit, total weight, peak switching, long **press to enter the clear peak interface**.

- The second window of the PEAK light is always on, and the peak light flashes to wait for the peak to be triggered.
- OUT1/OUT2/light is triggered by relay 1 and 2 respectively, and off is not triggered

Interface definitions



Terminal Description:

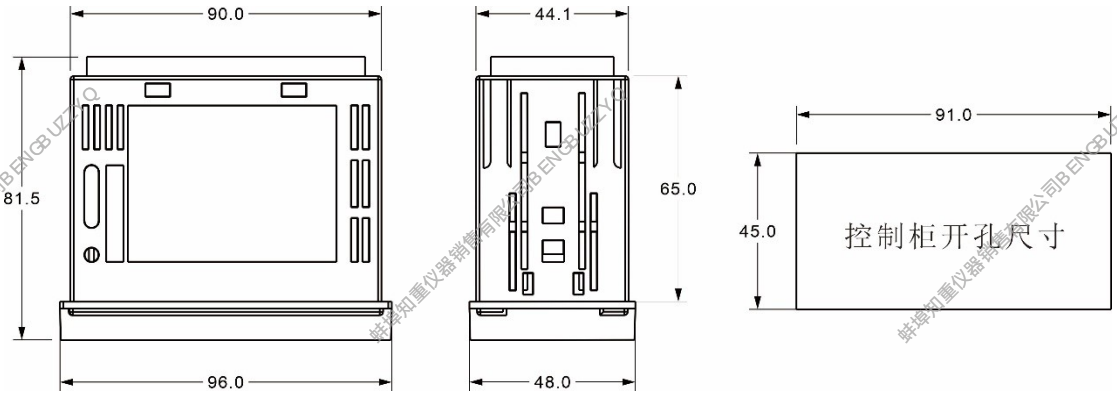
- Terminals 1 and 2 are the instrument power supply interface, [DC+, DC-] is 10-28V DC power supply, and [N,L] is 85-265V (rated 100-240V) AC power supply.
- [OUT1] [OUT2] is the alarm output terminal of the relay, both are passive dry contacts, which can be set as the upper output, the lower limit output, and the interval

  Internal output, out-of-range output, see menu **C3 for details rEL** relay settings.
- [Sensor] S+: Sensor signal+, S-: Sensor signal-, E-: Sensor excitation-, E+: Sensor excitation+,
- 【External Clearing】Shorting the 3rd and 4th terminals can achieve the following functions: (1) tPEEL **peeling** (power-down does not save) (2) SPEEL **peeling** (power-down preservation).

  (3) CPEEL **cancellation peeling** (power-down save) (4) SZEro **zeroing** (power-down not

saving) (5) CZEro **zero point calibration** (power-down save) (6) REMAX clearing peakThis function is turned off by default, see Menu C1**SyS** system settings.

Shape and opening size



List of functional parameters

Main menu		Secondary menu				
prompt	Function	prompt	Function	Default	Range	Function description
d1.sys		**100.ME**	**Median filtering**	3	1,3,5,9	Take the middle value from x values as valid values
		The 101st Infantry Regiment was relieBY	**Average filtering**	3	1-50	The average value of x values is the valid value, and the higher the set value, the more stable the weight display will be, but the response speed will be slower
		102.ds	**The secondary screen is displayed by default**	uNit	0：Gross 1: pEak 2: uNit 3: out1 4: out2	0: Gross Weight 1: Peak 2: Units 3: Relay 1 set value 4: Relay 2 setting The upper limit of the relay setting displays the upper limit Set the lower limit to display the lower limit Set the interval to display the

						interval
		Article 103.uN	**Unit selection**	kG	0-9	0：**NoNE**（none） 1:**G**（g） 2:**kG**（kg） 3:**t**（T） 4:**N**(N) 5:**pa**(pa) 6:**kpa**(Kpa) 7:**mpa**(Mpa) 8:**N.M**(N·m) 9:**kN**(kN)
		104.And so on.	**Decimal position**	0	0-4	Up button to switch decimal point position (loop) 88888,8888.8,888.88, 88.888,8.8888
		105.dV	**Index value**	1		1,2,5,10,20,50,100
		106.ro	**Maximum weighing**	99999	0-99999	The maximum weight allowed by the sensor exceeds the set value and the second screen shows ALoL **Maximum Weighing ≤ Total Sensor Range - Tareweight**
		107.by	**DI switch input**	WIDE	0-5	0: NoNE (invalid). 1: tPEEL (peeled and not preserved). 2: SPEEL (peeled and preserved). 3: CPEEL (cancel peeling and saving). 4: SZEro (set zero and do not save). 5: CZEro (proofreading zero preservation). 6: rEMAX (clear peak). The main interface works
		108.MZ	**Peak judgment threshold**	50	0-50000	If the peak is redetected after the set value, and the zero point is set to 0 or the zero point is greater than this parameter, the new peak will be refreshed only if the new peak is greater than the current original peak.
		109.MN	**Peak detection interval**	0.5	0-5.000	Peak redetection (seconds) above set value and greater than the judgment threshold
		110.br	**Display brightness**	L5	L1-L8	The segment code tube displays brightness

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						adjustment	
		111.uP	**Displays refresh time**	0.02	0.02-1.000	Refresh display based on setpoint (seconds)	
		112.tt	**The large screen is displayed by default (Optional)**	0	0：GroSS 1：NEt 2：pEak	0: Gross weight 1: Net weight 2: Peak	It can be directly connected to the Yew Whole's large screen display
		113.FA	**Factory reset**	NO	YES/NO	Restore factory default parameters (operate with caution)	
d2.CAL	**Calibration parameters**	**200.THEY**	**Zero point calibration**		AD internal code value	After entering, the AD value will be displayed, and the upper key will be cleared and saved at the same time	
		201.Mo	**Calibration mode**	Load	Load/data	Load ballast calibration, data digital calibration	
		202.WE	**Weight value**			The actual weight value entered during ballast calibration	
		203.rA	**Sensor range**		10-99999	Single sensor range X number of sensors	Data is only displayed when the numbers are calibrated
		204.SE	**Sensor sensitivity**	2.000	0.010-10.000	(mv/v)	
		205.rE	**Sensor excitation voltage**	5	0.010-10.000	V	
		206.rV	**Range correction factor**	1.000	0.010-2.000	The sensor linearity is further corrected by modifying this factor	
d3.rEL	**Relay out** Relay 1	**300.m1**	**OUT1 working mode**	1	0-4	0: NoNE (no output). 1: hiGh (upper output) 2: Low (Lower Output) 3: iNraN (In-Interval Output) 4: outrN (out-of-range	

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							output)
			301.V1	**OUT1 data type**	1	0-2	0: GroSS (gross weight). 1: NEt (net weight). 2: pEak (peak).
			302.r1	**OUT1 Difference value**	0	0.001-1	By setting the return difference value, the relay is avoided from moving frequently at the alarm point, 0.500 is 50% of the alarm value.
			303.t1	**OUT1 action delay**	0	0-9999	Relay delay (seconds)
			Art. 304.H1	**OUT1 output limit**	9000	0-99999	The upper limit of the relay output
	p ut		**Art. 305.L1**	**OUT1 lower output limit**	1000	0-99999	The lower limit of the relay output
		Rel ay 2	**306.m2**	**OUT2 working mode**	2	0-4	Same as relay 1
			307.V2	**OUT2data type**	1	0-2	
			308.r2	**OUT2 Return Value**	0	0.001-1	
			309.t2	**OUT2 action delay**	0	0-9999	
			Art. 310.H2	**OUT2 output limit**		0-99999	
			Art. 311.L2	**OUT2 output limit**		0-99999	
			Article 317.L3	**OUT3 output lower limit**		0-99999	
d4.AdV	**Advanc ed applicat ions**		**400.CV**	**Creep tracking**	1	0-10	10 levels, adjusted according to true creep, 0: nullified
			401.dZ	**Displays the zeroing range**	0	0-50000	For example, if the actual zero point of the sensor is 4, the current parameter is set to 5, the display will be 0, and when the pressure is 20, the gauge will show 24.
			402.tV	**Dynamic tracking range**	0	0-50000	0: Do not turn on dynamic tracking, see [Explanation of terms] for details.
			403.tC	**Dynamic**	0.2	0-2.000	

			tracking refresh			
		404.SV	**Stabilizing weight switch**	0	0-1	0:close 1:Open When the weight display is turned on, the final value will be displayed directly, for example, the actual weight is 200, and the display will directly display 200 from 0, and the change process from 0 to 200 will not be displayed.
		405.Zr	**Zero range**	500	0-50000	The absolute value of the zero point is allowed to be set manually and automatically within this parameter
		406.PCS	**Power on and set a zero switch**	0	0-1	0：close 1：Open
		407.Pt	**Power-on set to zero time**	10	0-1800	The re-power-up counts down to this time
		408.Pr	**Power-on set the zero range**	50	0-50000	When the power-on zero is turned on, the power is turned on again, and when the absolute value of the zero point is detected within this parameter, the zero point is automatically zeroed
		(Repealed) 409.THE	**Automatic zero switch**	0	0-1	0：close 1：Open
		410.At	**Automatic zero time**	0.100	0.100-9.999	
		411.Ar	**Auto-zeroing range (indexing)**	1.0	0.1-50.0	During the automatic zeroing time, when the absolute value of the zero point is within the range of automatic zeroing, the zero is automatically zeroed (this parameter is multiplied by the index value is the final

						range, which is different from [401 displays the zeroing range], and the zero point is 0 after automatic zeroing) *[412] [413] Effective when "weight stability" is determined
		412.Wr	**Judge the range (Index)**	0	0-5	Determine whether "weight stability" is effective, =0: It means that the weight is always stable >0: When the weight change is within the [412] stabilization range during the [413] stabilization time, it means "weight stability" This parameter affects manual peeling, and automatically zeros the multiplied index value of this parameter to the final range
		413.Wt	**Judge the time**	1.000	0.01-9.999	[412] [413] The two parameters together determine whether it is a stable state
d7.LOC	**Login password**	**700.oP**	**Log in to the password switch**	0	0-1	0：close 1：Open
		701.Eau	**Change your password**	0000	0-9999	The default password is 0000, and you need to enter the default password to change the new password
d8.FCC	**Factory adjustment**	**800.The**	**Manufacturer password**			For internal use by manufacturers
		801.EX	**Exit factory adjustment**			
		808.For example,	**ADC datum setting**			
		809.SF	**Manufacturer reservation**			

d9.iNF	**Version information**	**900.AND**	**Software version number**			
		901.id	**Device unique code**			

Fault or character description

Secondary screen display	**Fault or character description**
PoiNt	Power-on initialization status, displayed when power-on, automatically exits after obtaining the first valid data, and exits at the end of the countdown if the power-on zeroing function is turned on
-----	No effective peaks were captured
Err.ro	The fault EEPROM fails to read and write, and the user presses the OK key to release it
Err.Ad	ADC failure
AL.Ad	ADC failure, the sampling signal is too large, and the ADC reads the maximum or minimum value (automatically canceled)
AL.oL	Sensor overload or exceed maximum range
AL.AZR	The sensor fails to power on and clear, exceeding the set power-on zero value
AL.PEL	Manual peeling fails, does not meet the peeling conditions **Peeling conditions:** (1) cannot be negative, (2) the relay cannot be suctioned, and (3) it needs to be in a stable state
AL.MZr	Manual zeroing fails and does not meet the zeroing conditions
The main screen display	**Fault or character description**
-----	Appears when modifying the sample rate, automatically exits
He.doM	If the value set by the user is too small, it will be automatically set to the minimum value that can be set
Er.up	If the value set by the user is too large, it will be automatically set to the maximum value that can be set
He.iNV	The user input is invalid
He.pwE	The user entered the wrong password
FA.roM	The configured parameter write failed, but the parameter has taken effect
FA.AdC	ADC setup failed
He.buy	The system is busy and cannot perform operations, and generally the data is not collected and stabilized, and the zeroing or calibration operation is performed

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