SISCO



C ,	8. Tech	nical	specifications				
Power supply: AC 85~265V, 50Hz, 7.5W							
	Use env	vironmer	t: 0~50 ℃, 10~85%RH (n	o dewing)			
	Digital	display:	5 digit red LED display				
Display range:-19999~45000, overload display O.L Decimal point position: 5 different positions can be selected							
	Sensor	voltage:	DC 10V/150mA		•		
	Incomi	ng signal	: 0~±25mV				
	Samplii	ng speed	: 10 times per second				
	Maximi It will d	um displ	ay points: 10000	otura whan now	r on		
	Auto re	turning f	o zero: The range is dependent	led on the range	of Eror.	3	
	Compar	rative co	ntrol output: six ways to co	mpare, select by	setting.		
	- - : w	hen gros	s value > comparing setting	g value, controlle	er outputs		
1	-[[-:w u0_c	hen gros	s value < comparing setting	g value, controlle	er outputs		
ן הסי	mnaring s	then posi	tive deviation of gross valu	e and setting val	ue Hu >		
	LP-S: w	hen nega	tive deviation of gross valu	e and setting va	lue Au >		
co	mparing s	etting va	lue, controller outputs	C			
	HLPS: w	hen abso	olute value of deviation of g	ross value and s	etting value		
Ηu	J > comp	aring set	ting values, controller outp	uts	otting value		
F	1 < comp	aring set	ting values, controller outro	uts	etting value		
	J Inste	llatio	n and wiving			6.	
4	i. Ilista	anatio	ii aliu wiring				
		1 2	3 4 5 6 7 8	9 10 11	12		
		1 2 13 14 sig+ sig-	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output	9 10 11 Power 0 21 22 23 AH Output 220	12 Supply 24 VAC		
5	5. Para	1 2 13 14 SIG+ SIG- meter	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output	9 10 11 Power 0 21 22 23 AH Output 220	12 Supply 24 VAC	- -	
Ę	5. Para	1 2 13 14 sig+ sig-	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output list Group 1 paramo	9 10 11 Power 0 21 22 23 AH Output 220	12 Supply 24 VAC		
Ę	5. Para	1 1 2 13 14 SIG+ SIG- meter	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output list Group 1 parame Contents	9 10 11 Power 0 21 22 23 AH Output 220 eters Value range	Supply 24 VAC		
Ę		1 1 2 13 14 siG+ siG- meter Name OUT1	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output list Group 1 parame Contents Comparison value of the 1st comparison control output	9 10 11 Power 21 22 23 AH Output 220 23 AH Output 220 eters Value range -19999~45000	supply 24 VAC		
5	5. Para	1 2 13 14 sig+ sig- meter OUT1 OUT2	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output list Comparison value of the 1st comparison value of the 2nd comparison value of the 2nd comparison control output	9 10 11 Power 21 22 23 AH Output 220 20 Cters Value range -19999~45000 -19999~45000 -19999~45000	Introduction 7 7		
5	Code Code OUE 1 OUE 2 Ru	1 2 13 14 \$IG+\$ \$IG-\$ meter Name OUT1 OUT2 Au	3 4 5 6 7 8 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output list Contents Contents Comparison value of the 1st comparison value of the 1st comparison value of the 2nd comparison control output Comparison values of comparison control output	Power Po	Introduction 7 7 7		
5	Code OUE 1 OUE2 Ru OR	1 2 13 14 sig+ sig- meter OUT1 OUT2 Au oA	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output 4 5 6 7 8 15 16 17 18 19 2 2 4 5 6 7 8 15 16 17 18 19 2 4	Power Po	12 Supply 24 24 24 AC Introduction 7 7 7 6.4		
5	S. Para	1 2 13 14 stG+ stG meter 0 Name 0 OUT1 0 OUT2 Au oA ALo1	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC+ EXC- AL Output Ist Contents Contents Comparison value of the 1st comparison control output Comparison value of the 2nd comparison control output Target values of comparison control output Password Comparison mode of the 1st comparison control output	Power Power Power Power Power Power Power Power 220 AH Output 220 AH Output 200 AH Ou	12 Supply 24 25 26 27 28 29 20 20 21 22 24 24 27 28 29 29 20 20 210 224		
5	Code Code OUE 1 OUE2 RU OR RLO 1 RLO2	1 2 13 14 sig+ sig- meter 0 0UT1 0UT2 Au 0A ALo1 ALo2	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC- AL Output 1 19 2 Iist Group 1 parameter AL Output 1	Power Power Power Power Power Power 21 22 23 AH Output 220 24 22 23 24 22 23 220 24 22 23 24 20 20 20 20 20 20 20 20 20 20	12 Supply 24 25 26 27 28 29 20 20 21 22 23 24 24 27 28 29 20 20 210 224		
Ę	S. Para Code OUE 1 OUE 2 RU OR RLO 1 RLO 2 RYR 1	1 2 13 14 sig+ sig meter Name OUT1 OUT2 Au oA ALo1 HYA1	3 4 5 6 7 8 15 16 17 18 19 2 EXC+ EXC+ EXC+ AL Output Ist Group 1 parame Contents Contents Comparison value of the 1st comparison control output Comparison control output Target values of comparison control output Target values of comparison control output Password Comparison mode of the 1st comparison control output Comparison mode of the 1st comparison control output Sensitivity of the 1st comparison control output	Power Po	12 Supply 24 25 26 27 27 28 29 20 20 21 22 23 24 25 26 27 28 29 29 20		
5	Code Code Code Code Code Code Code Code	1 2 13 14 sig+ sig- meter 0 OUT1 0UT2 Au 0A ALo1 ALo2 HYA1 HYA2	3 4 5 6 7 8 5 6 7 8 5 6 7 8 5 7 8	Power Power Power Power Power Power Power 210 220 Power 200 Power Power Pow	12 Supply 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 25 26 7		
5	Code Code Code Code Code Code Code Code	1 2 13 14 sig+ sig- meter 0 OUT1 0 OUT2 Au oA ALo1 ALo2 HYA1 HYA2 AHH	3 4 5 6 7 8 5 6 7 8 5 7 8 7 8 5 7	9 10 11 Power Power 21 22 23 AH Output 220 eters 220 value range 19999~45000 -19999~45000 -19999~45000 0~9999 6 modes 6 modes 0~19999 0~19999 0~19999 0~19999 0~19999	12 Supply 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 25 26 7		

		Group 2 paran	neters		1	(5) Add key	1. When measuring state, switch to gross	
53	Fi	Coefficient	0.5000~3.0000	8.1			value, net value, peak value and valley	
E-c	F-r	Range	100~45000	8.2			value.	
Co-b	in-b	Zero point	-19999~45000	8.3			2. Increase the modification position value when setting	
- nu-r	J mv	Sensitivity of sensor	0.8000~3.0000	8.4		6 Peduction	1 If the gross value does not exceed the	
Cn-c	l in-d	Display the decimal point position	5 modes	8.5		key	zero range and the measurement value remains unchanged, press this key to	
SErc	SZro	Automatic returning to zero selection when power on	oFF / oN	8.6			2. Reduce the modification position value when setting.	
Enor	- Zror	Zero setting range	0~10000	8.7				
ԲԼեո	FLtr	Digital filtering	1~20	8.8	0.2 Fa	rameters of the inst	g Instructions	
unit	unit	Unit	0~3	8.9	which is	s listed in Chapter	5, the parameter list.	
SEG	Std	Stability judgment range	1~100	8.10	★ The f	irst group of param	eters $\Box R$ and the second group of parameters are	
br-c	tr-d	Zero tracking range	0~4	8.11	controlle	ed by the password.	The password is not allowed to enter when the	
08 I	oA1	Alarm setting value selection control by password	oFF / oN	8.12	★ When if it is n	ther the \bigcirc \downarrow \downarrow \downarrow \bigcirc	$UE2$, R_{U} parameters can be selected by the preferences of $\Box R_{I}$ F, and it is not controlled by it. When set to OP on be entered and modified, it cannot be stored	
6. O	peratio	n			6.3 Set	tting method of	f comparison Control output	
6.1 Pa	nel and	kev instructions			compa	rison value		
]		The cor	nparison value is i	n the first set of parameters.	
			• GROSS • NET		meter sh	lows out I.	101 2 seconds to enter into setting state, and th	
	(1)		O O O O O VALLEY		2. You o	an select the other	r parameters of this group in order by single	
	0				pressing	g the U key.	I out the original set value of the ourrent	
					paramet	ter, and the flicker	bit is a correction bit	
		34	56		4. Move	e the modification	bit through the 🛞 key, the 🛞 key is for	
	Name	I	ntroductions		apprecia	ation, and the \bigotimes	key is for decrease in value, and modify the	
		1. Display meas	sured values respe	ectively,	5. Press	the O key to sa	we the modified parameter and automatically	
	(1)Displa	such as gross va	such as gross value, net value, peak value		go to the next parameter. If this is the last parameter, press the \textcircled{O} key			
	window	and valley value	e matar symbols a	ad	and then go to the first parameter. The other parameters of this group can be set up by repeating the Step 2 \sim 5			
		2. Displays para	es in the paramete	r setting				
		state	is in the paramete	i setting	★ If th	e modified parame	eter cannot be stored, it is because the	
		1. out1, out2 are indicator light 2. MOT light is	1. out1, out2 are comparative output indicator light 2. MOT light is on measured value is			parameter $\circ R$ is set to ON, so that the parameter is controlled by the password, and the password should be set first.		
		changed.			6.4 Pa	ssword setting	method	
	②Indica	tor 3. Zero light is	3. Zero light is on, measured value is zero.			When the instrument is in the measurement state, the password can be set.		
light		4. GROSS light is on, display gross value.			1. Hold down the settings key \odot until $\Box \Box c$ is displayed			
	C	6. PEAK light i	6. PEAK light is on, display peak value.			2. Press the \textcircled{O} key continuously and switch to B		
		7. VALLEY light	ht is on, display v	alley value.	3. 1	Press the 🔇 key	to enter the state of modification, in the	
		8. kN, g, kg, t a	re measurement u	nit	coopera	tion of 🔘 🔘	the \textcircled{O} key will be modified to \fbox{O}	
		1 Press it for 2	seconds to enter i	nto the	4.]	Press the O key	to complete the password setup	
Ope		setting state.			6.5 Set	tting method of	f other parameters	
erat	③Setting	g 2. Press it, and t	2. Press it, and then press \bigotimes within 2			1. At first, set the password as 6.4		
lion	key	seconds until sh	seconds until showing ⊂HC, enter into the adjustment state. 3. Press it, and then press ⑨ within 2		2. The parameters $\circ \Re$ after the parameters in the first set of parameter Press the \textcircled{O} key to select			
all	\bigcirc	3. Press it, and t						
key		seconds, after 2	seconds valley v	alue will be	3.	The parameters of	f the other groups are entered in sequence	
		cleared.			holding	down the O set	ting key and the symbols of the first parameter	
		1. When the we	ight does not char	nge, after	the grou	p are displayed by	the meter.	
	(1) off 1-	ev pressing the key value as the net	minus deduction	value, and	4	After entering the g	roun in which the parameters need to be set pro	
		transfers to the	net value to show			in sequence to sele	bet the parameters that need to be set in this group	
	2. Move the modification position when set.			$\frac{1}{2}$	to call out the original act value of the a			
		3. When setting	a parameter, ente	er into	Э.	riess the S key	bit is a modified bit	
1 I					Darame	er, and the flicker	on is a mounded bit	





next parameter Repeat Step $4 \sim 7$ to set other parameters of this group.

Exit setting: When the parameter symbol is displayed, hold down the settings key of **O** until you exit the setting state of the parameter.

7. The description of output comparison value parameter is controlled

Each control output comparison value has three parameters, which are used to control the output comparison value, select the comparison mode and compare the sensitivity of the comparison value.

- out 1 and out 2 are the comparison of the 1st and 2nd control outputs, respectively
- Ru is the target value of the comparative control output.
- $RloI \sim Rlo2$ are two selection and comparison methods. respectively
- All comparison values are equal to the gross value.
- Each comparative output control point is correlated with three parameters of out ALo, HYA
- If the third to sixth comparisons are used, they are also related to the A_{\cup} parameters.
- out 1, out 2: Point 1, point 2, compare the output of the comparison value set.
- ALo I, ALo2: The first and second point comparison output comparison mode setting.

-HH - indicates gross value > the output conductance in comparison value



- L L - indicates gross value > the output conductance in comparison value



HP-5 indicates positive deviation between gross value and given value Hu > the output conductance in comparison value



LP-5 indicates positive deviation between gross value and given value Au > the output conductance in comparison value



HLPS indicates the deviation absolute value of gross value and

set value $\exists U >$ the output conductance in comparison value





 H_{U} < the output conductance in comparison value



- HUR 1 HUR2 Sensitivity setting for comparison output of point 1 and 2.
- The sensitivity is the extended region of output recovery set according to the need to prevent the gross value from fluctuating near the comparison value resulting in frequent output ON,OFF

For example: when the comparison way is -HH-



RHH peak value judgment threshold value

When the real time weight exceeds the peak threshold, the new peak value comparison is performed, and the new peak value is retained until the weight exceeds the peak threshold value again.

RLL valley threshold value

When the real time weight is below the threshold of the valley value, the new valley value is compared, and the new valley value is kept until the weight is lower than the threshold value of the vallev value again.

8. Parameter specification

8.1 FC coefficient

The coefficient is a full scale calibration coefficient, and the factory has been calibrated. When users do not modify, they can not be calibrated.

8.2 F-r range

The sensor range is the sum of n sensor ranges. The user sets the parameter according to the actual range, indicating that the sensor's range is F-r. The factory settings is 10000.

8.3 Co-b null point

Zero values range is from-1999 to 45000, the factory settings is 10000 8.4 nu-u transducer sensitivity

The unit of sensor sensitivity is MV/v, and the factory settings is 2.0000. 8.5 $L \cap -d$ scaling position

There are 5 decimal places, respectively are 00000., 0000.0,

000.00, 00.000, 0.0000 The factory settings is 00000

8.6 53Fo Automatic zero clearing selection Automatic zero clearing parameters of meter. When it's $S_{10} = 0N$, it will automatic clearing; when it's S=ro = oFF, the automatic clearing is

invalid, and the factory settings is oN_{o}

8.7 $\Xi_{\Gamma O \Gamma}$ zero setting

When the measured value is within zero range, press the O button for 2 seconds to make the display zero. In measuring condition. The factory settings is 1000.

8.8 FLEr digital filtering

The force measurement device is affected by its own natural frequency and the external vibration conduction will produce random vibration, which makes the display value of the instrument unstable. The appropriate digital filter is selected according to the size of its vibration to make the display stable. The smaller digital filter is selected for vibration hours, and the larger number is chosen for large vibration.

Optional range is 1 / 20. The factory settings is 1. 8.9 Unit selection 0-t, 1-kg, 2-g, 3-kN. 8.10 Stable range When the variation within 1 second of the measured value exceeds the value of the set parameters, the instrument considers the force value At this time the Mot lights are on. 8.11 Er-d Zero tracking range If the force is in zero tracking range within 1 second or greater than or equal, the reading will be tracked to zero. Zero tracking range is 0 -4. and if it's not tracking when 0. 8.12 **B** Password control selection for comparing output settings This parameter determines whether the comparison output settings are controlled by the password: - Comparison output settings are controlled by passwords oFF . Comparison output settings are not controlled by nasswords 9. Calibration Instructions Notice: before calibration, the 2r - d zero tracking points is closed; it can not be cleared by ZERO key; If the power is turned on to clear the zero automatically, please set the SEro parameters to OFF, then power on again before calibrating. 9.1 Automatic calibration When it leave the factory, the parameter is set to $F_{-r} = 10000$ nu-u =2.0000 9.1.1Automatic zero adjustment : Press O for 2 seconds then press O for 2 seconds to enter into the adjustment state, showing CRU. Press the Subtron to enter into the zero calibration. After the zero-position calibration is completed, it is shown 00000 that there is a scintillation at the end. If you only adjust to zero, do not adjust the range, press the Θ_{key} to exit adjustment, and return to normal measurement. 9.1.2 Automatic range adjustment Press O for 2 seconds then press O for 2 seconds to enter into the adjustment state, showing CRL. ^①Press the ^③button to enter into the zero calibration. After the zero-position calibration is completed, it is shown 00000 to enter range calibration.

⁽²⁾The standard weight is placed on the force measuring device, and the display value is set to the standard value of the standard weight by means of the cooperation of the \bigcirc key, and the calibration of the measuring range is completed by pressing the O, O and O key. ③If zero is not calibrated, press the ④ key to enter the range calibration directly after displaying \sub{RL} . Press the key to enter the numerical modification. The display value will be set as the standard value of the standard weight. Press the key to confirm the exit after the modification. Press the 🛞 key to enter the numerical modification. The display value will be set as the standard value with the \bigotimes , \bigotimes and \textcircled{O}_{kev} . Press the O key to confirm the exit after the modification.

★ Press **O** before withdrawal to make sure MOT lights are not on 9.2 User has not weights calibration

When the instrument leaves the factory, it has been calibrated according to the sensitivity and range. The user only needs to set up the sensitivity of the sensor, display the decimal point and the range, and then make sure that the range is not calibrated when the input of the range and sensitivity is correct.

For example: the sensitivity of the sensor is 2.002 MV/v, and the measuring range of 4 sensors is 1 t. total range 4t

Unable code correction parameter setting:

When the peak value or valley value exceeds the limit, $\mathbf{0}$, \mathbf{U} will be displayed, and the peak and valley value will be cleared to show the normal value.

 \star EFF2: when calibrating the measuring range automatically, the input signal number value exceeds the limit. It may be that the value of the parameter F-ris too large.

 \star Err 3: When zero is adjusted, the input signal exceeds 50% of the total range ★ o.L :

When the product of input signal and coefficient, range, and sensitivity of the instrument is out of range, o.L is shown.

When the measured value of the instrument is greater than 45000 or less than -19999, showing o.L



۶-r	Range	40000
ດົບ-ບ	Transducer	2.0020
	sensitivity	
in-d	Display the	0.0000
	decimal point	
	position	

9.3User manual fine-tuning

When the weighing material is full, it can be achieved by adjusting the zero and coefficient when the calibration condition is not met. Notice: please record the values of the parameters of 2n-b and FC, which cannot be recovered after calibration.

9.3.1Fine-tuning zero point

For example,

In a large storage tank, the zero point is changed greatly due to the mechanical structure or the change of the mechanical state of the sensor The display weight is not correct, and the tank can not clear the calibrated zero point, so it can be adjusted by manual input of the zero internal code.

The material in the tank is estimated to be 20 000 kg according to the volume, but it can actually be shown to be 21 000 kg. If the 1000kg material is added, the display will also increase 1000 kg at the same time, then the weight is not allowed to be caused by the zero point change, and the zero parameter can be modified to $\overline{cn-b}$ and the zero point can be adjusted up to 1000kg.

Zero adjustment formula:

Adjusted display value = Display value before zero adjustment -(in-b)

9.3.2Fine-tuning coefficient

For example,

Assuming that the weight of the weighing platform is 1000kg and the meter shows 997kg, the calibration coefficient needs to increase by 1000÷997, which is equal to 1.00301. The original calibration coefficient is $E_{0} = 2.1672$, and it is necessary to expand the coefficient 2.1672 by 1.00301 times, that is, $F_{c} = 2.1737$.

Coefficient correction formula:

Adjusted display value = Display value before coefficient correction \times FC -(Cn-b)

 \star EFFI : the automatic calibration range can be calibrated up to 10000. if it exceeds 10000, Err I can be shown.