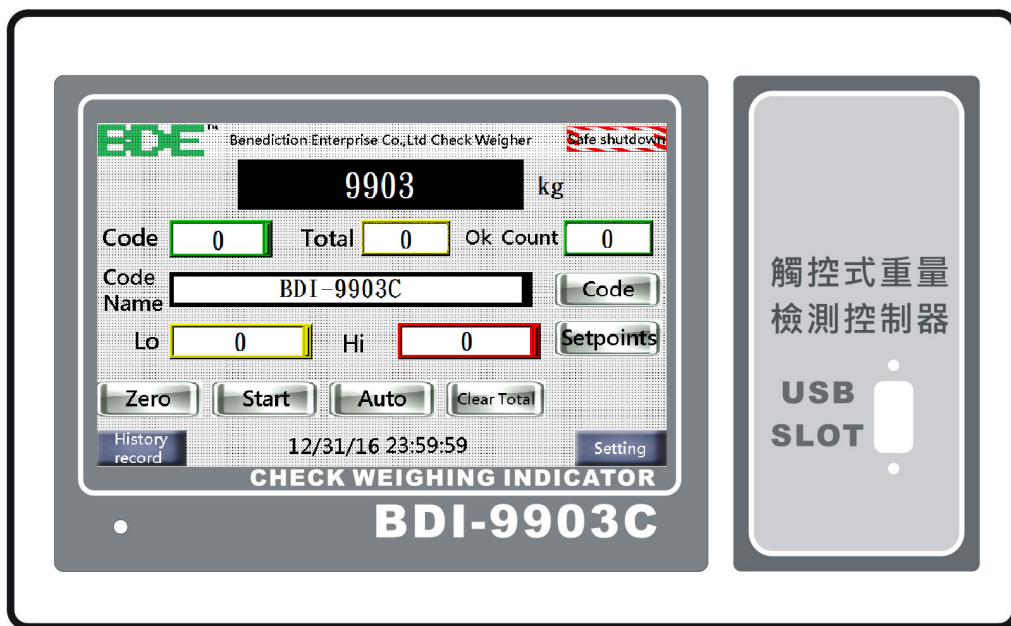


BDI-9903C

CHECK WEIGHING INDICATOR



OPERATION MANUAL



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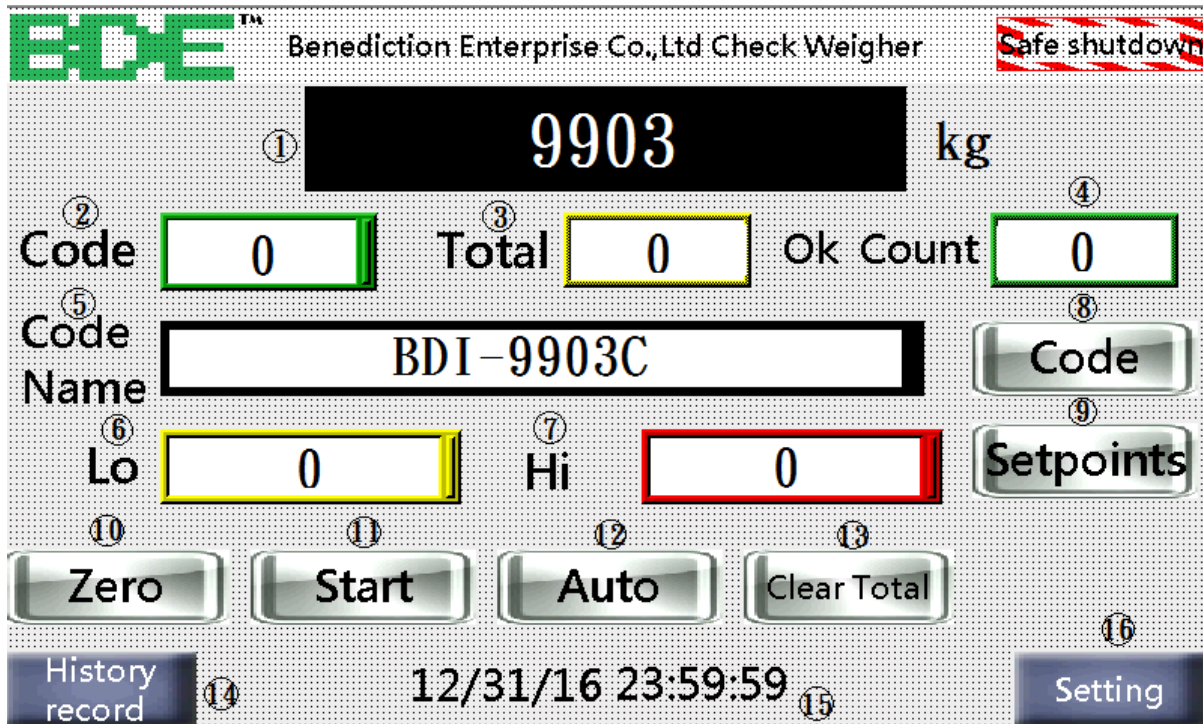
※ Please check whether the weighing area is clear before turning on the machine every

day, and check whether the weight is zero after turning on the machine.

If not, press " Zero" to clear the weight.

CHAPTER 1 INTRODUCTION

§ 1-1 System Functions Introduction

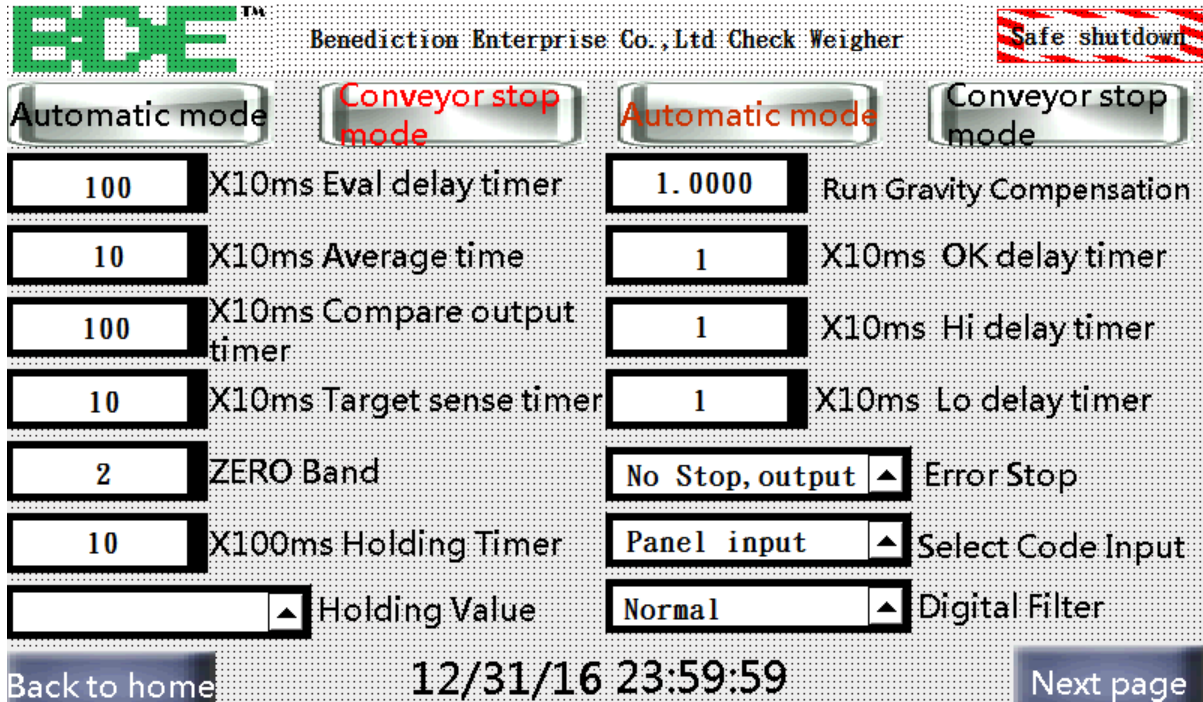


1. Weight display: Display the weight of the item on the current weighing platform
2. Code: 0 ~ 199 codes can be set. After the group is changed, the count, ok number, material number, lower limit and upper limit will be changed at the same time
3. Total: records the number of items passing through the weighing platform, and its function is only effective in the automatic mode
4. OK Count: Record the qualified number of items passing the weighing platform. The judgment condition is between the lower limit and the upper limit. Its function is only effective in the automatic mode
5. Code Name: The name of the item, which can be set to 16 alphanumeric characters and full-half symbols
6. Lo limit: The minimum weight limit is set according to the weight of the item
7. Hi limit: The maximum weight limit is set according to the weight of the item
8. Change Code: change the code, each code consist of . count, ok number, material number, lower limit and upper limit
9. Setpoints: change material number, lower limit and upper limit
10. Zero: Clear the weight value, and be sure to check whether the weighing platform is clear before use.
11. Start / Stop: The weight check starts / stops, and its function can be activated only in the automatic mode.

12. Automatic / Manual: weight detection automatic / manual, automatic mode weighing record, manual mode does not weigh
13. Clear Total: Clear the records of total and qualified numbers
14. History record : record the date, time, weight value, lower limit, upper limit and material number of each item passed through the weighing platform. This function is only effective in the automatic mode
15. Date and time: Display month / day / year / time
16. Setting: modify other parameters and weight calibration, preset password 123 is for engineering personnel.

CHAPTER 2 INTRODUCTION

§ 2-1 Set Points



Eval delay timer: The time required for the item to enter the weighing platform

Average time: The number of times the item has gained weight after entering the weighing platform. BDI-9903C will average all time period

Compare output timer: Disqualified discharge output time. The signal will hold until the ejection time needed

Target sense timer: delay time after passing the electric eye

Zero Band: the range that can be zeroed

Holding Timer: T Sec x 100ms

Holding Value: Front Panel / Serial Interface

Run Gravity Compensation: Compensate for errors caused by items during movement
《0.9000-1.1000》

OK delay timer: OK output time

HI delay timer: HI output time. It should eject the object at the right time

LO delay timer: LO output time. It should eject the object at the right time

Eject: Type of follow-up actions when a human-machine error occurs, error stop, error HI discharge, error LO discharge, and error HI / LO discharge

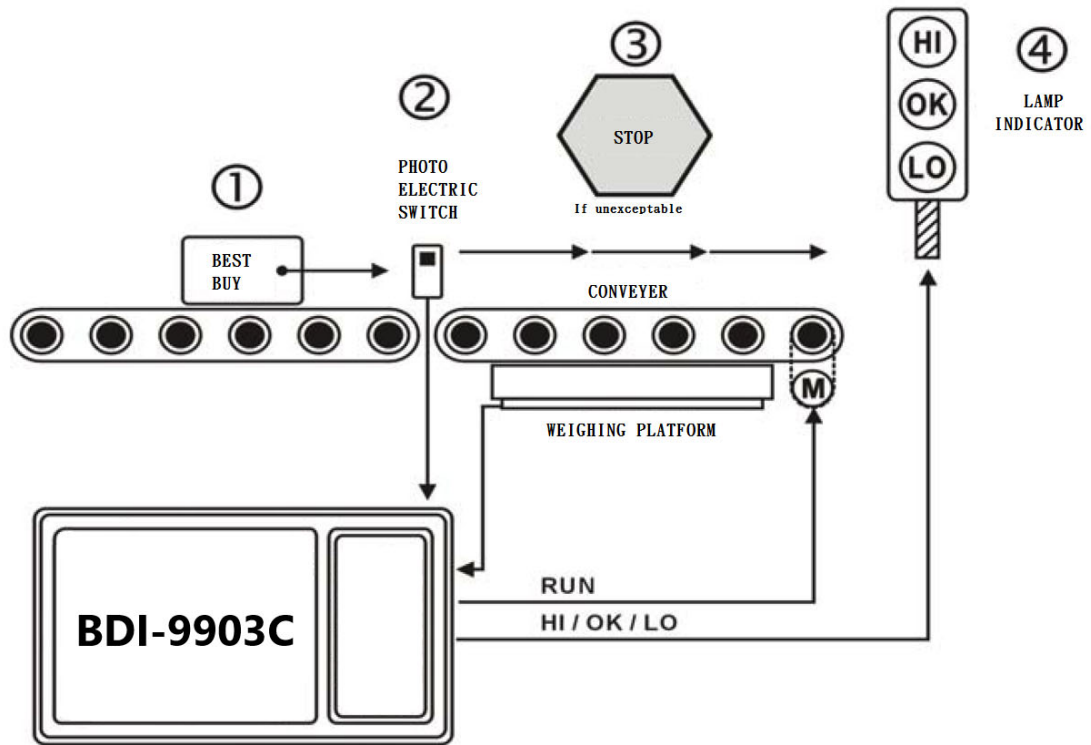
Select Code Input: Panel input / External control

Digital Filter: Weaker / Normal / Strong / Strongest / Lang2

§ 2-2 Check Weighing Mode Summary

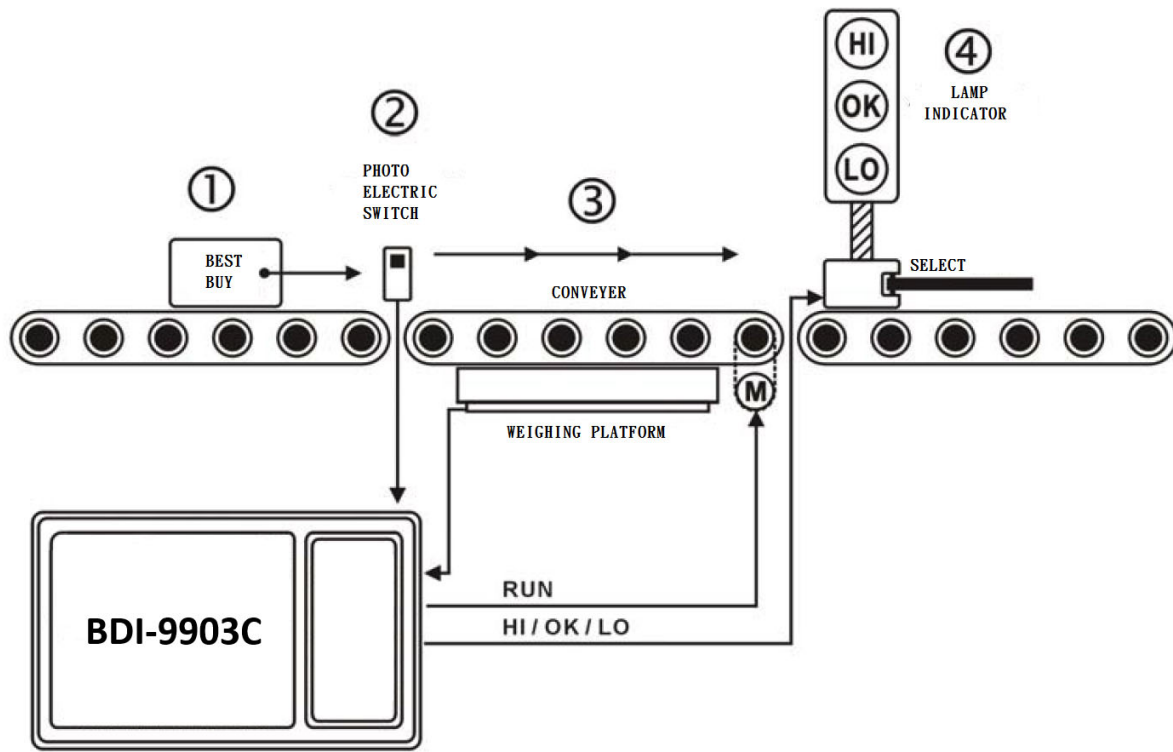
§ 2-2-1 Semi-Automatic System 1 / Weigh-Conveyer Run

1. Weigh on the run
2. Semi-automatic capability, conveyor stops if weight is unacceptable
3. OP-01 relay can signal a comparator display



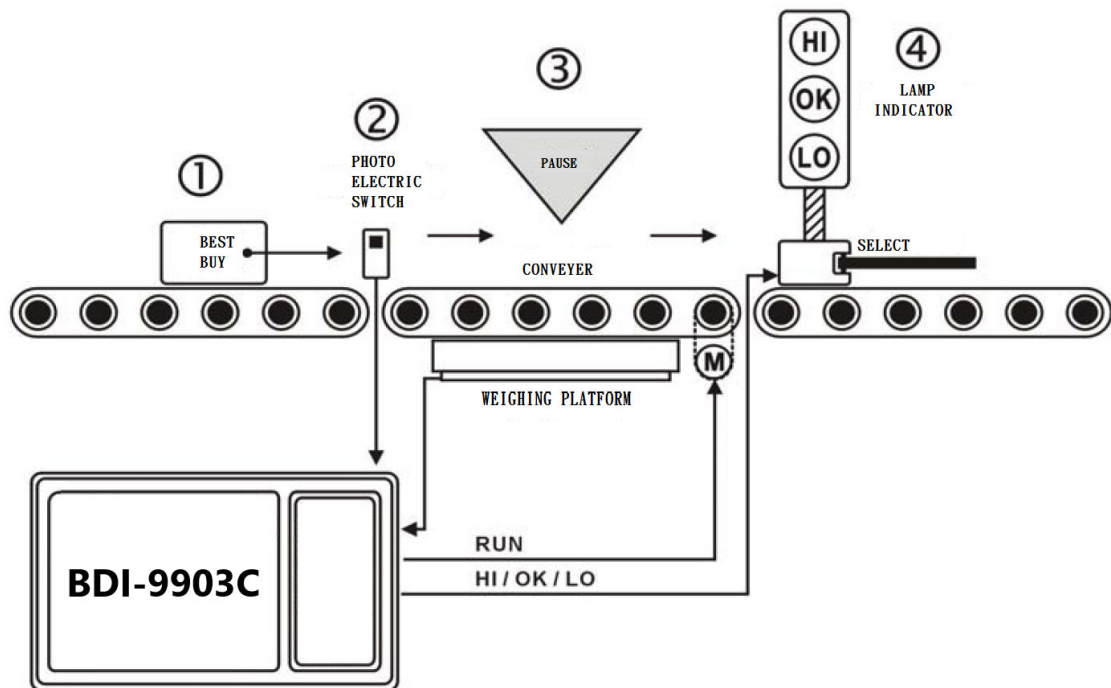
§ 2-2-3 Fully-Automatic System 3 / Weigh-Conveyer Run

1. Weigh on the run
2. Full automation capability, OP-01 relay can signal a selector to reject
3. Compensate for gravity on a moving object

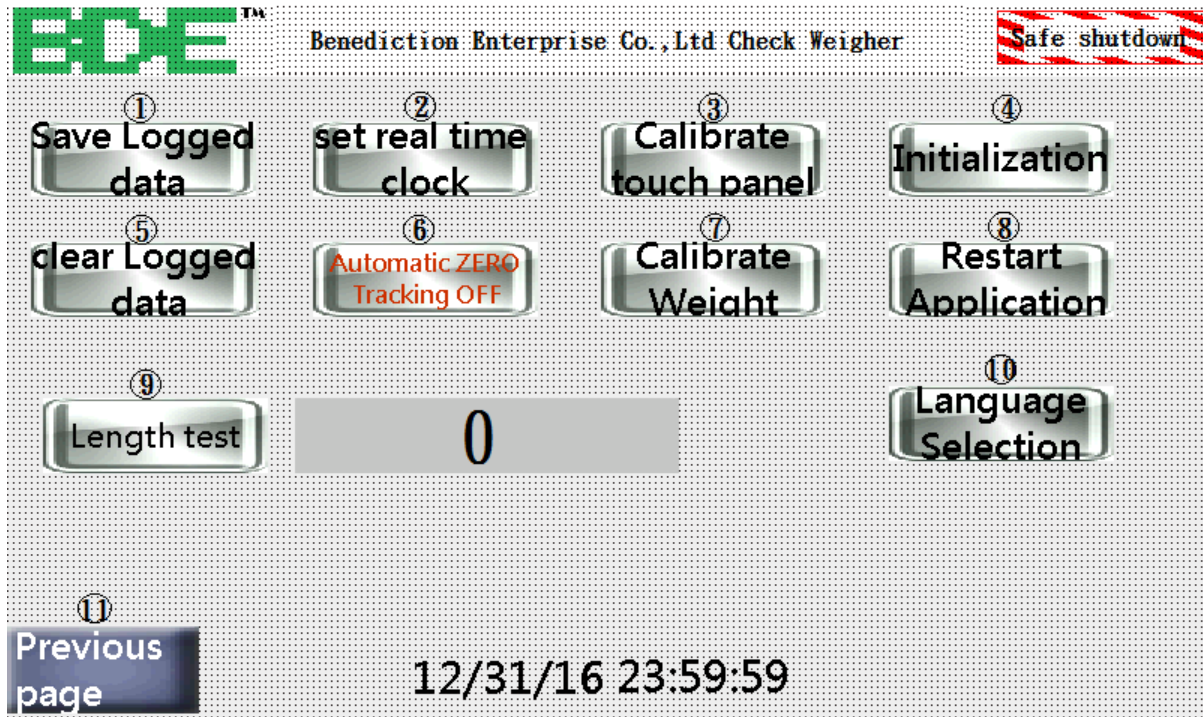


§ 2-2-4 Fully-Automatic System 4 / Weigh-Conveyer Stop

1. Pause to weigh (high accuracy)
2. Full automation capability, OP-01 relay can signal a selector to reject

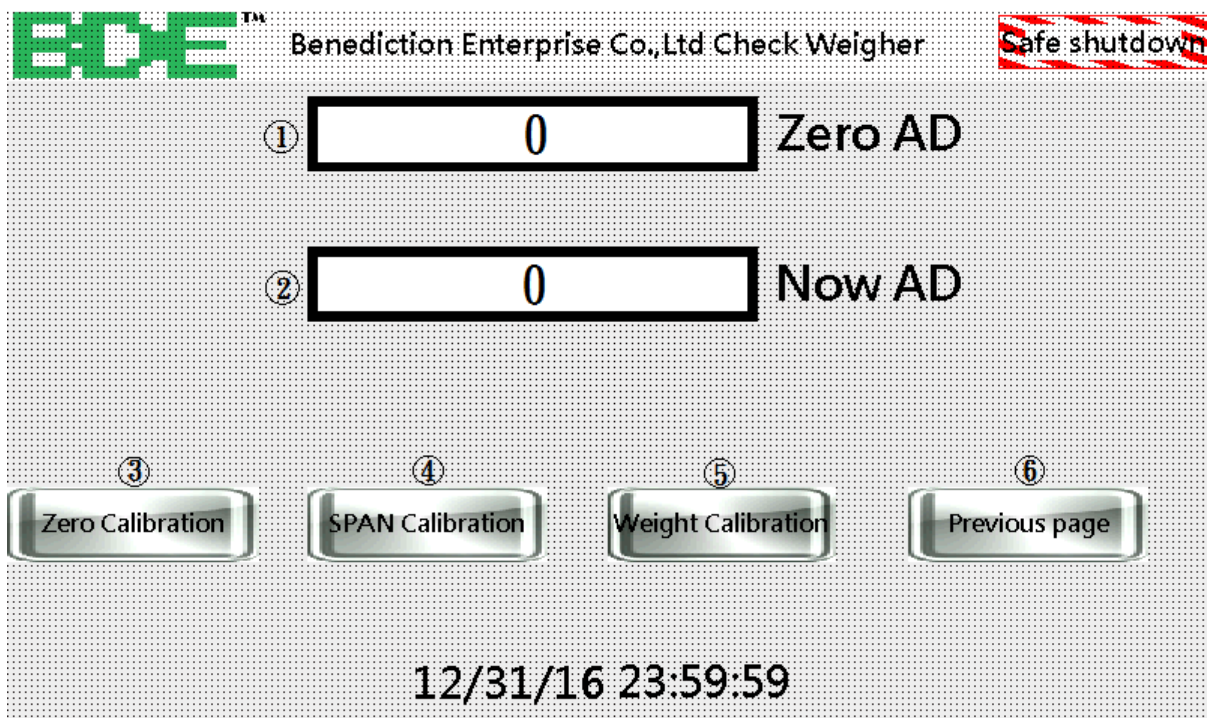


§ 2-3 Functions



1. Save Logged data: Save the history page on the display unit to a USB flash drive 8G/16G
2. Set real time clock: change month / day / year / time
3. Calibrate touch panel: Used when the touch panel does not respond or is misaligned
4. Initialization: restore all setting parameters to the factory values, and need to re-calibrate.
5. Clear Logged data: Clear historical records on the display unit
6. Automatic zero tracking: Automatically reset to zero to keep the weighing platform at zero.
7. Calibrate Weight: used when the weight is not accurate or when the weighing platform is used for the first time.
8. Restart Application: Only part of the human-machine interface restarts..
9. Length test: test object passes through the electric eye to the end time of the electric eye
10. Language Selection: Chinese / English
11. Previous page: return to parameter setting

§ 2-4 Calibration



1. Zero AD: Zero AD value of the weighing platform after calibration
2. Now AD: AD value of the current weighing platform
3. Zero Calibration: Zero calibration is performed separately
4. Span Calibration: Use load correction alone
5. Weight Calibration: complete weight correction
6. Previous page: return to settings

Calibration Procedure :

Enter the calibration screen by weight calibration on the page of calibration

instructions

Benediction Enterprise Co.,Ltd Check Weigher

Safe shutdown

Maximum Capacity: 20.00

Decimal Point Adjustment: 12.345

Minimum Division: 1

Weighing Unit: kg

Pre-ZERO Adjust : Please move the calibration mass and objects away on the Weighing device then press Save key

Quit Save

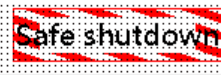
12/31/16 23:59:59

Enter the maximum weight, change the position of the decimal point and the minimum scale.

After the input is completed, check whether the weighing platform is clear. Press Save to

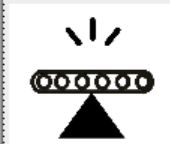
enter the next step

After a period of time, complete the zero calibration and enter the following screen



20.00

Calibration weight



SPAN Calibration : Place your calibration mass on the weighing device and input weight value .

★ The closer to Maximum Capacity the SPAN weight is - the more highly accuracy the reading will be (especially at the higher end) .

Quit

Save

12/31/16 23:59:59

Enter the weight value of the weight to be calibrated. After the input, put the weight on the weighing platform, and then press the enter key. If there is a decimal point, you need to add zero

Example:

200.0 g for full scale, 50 g for calibration, then enter 500 for calibration weight

200.00 g for full scale, 50 g for calibration, then enter 5000 for calibration weight

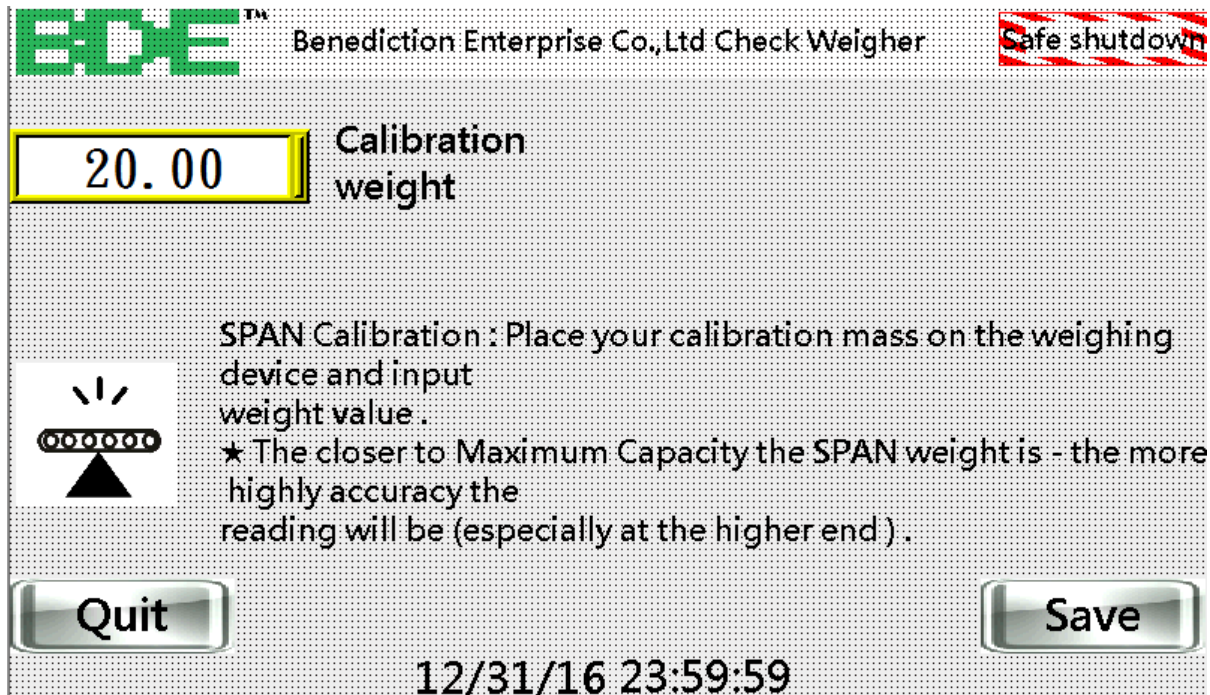
The full scale weighs 200.000 g, and 50 g is used for calibration, then the calibration weight value is entered as 50000

Back to main display.

Individual Calibration: Zero correction After confirming whether the weighing platform is clear, press Zero calibration to directly correct the zero point, and the Zero AD value will change immediately.

Span Calibration (Put Calibration Mass to expand weight division to full scale)

Press SPAN key:



Enter the weight value of the weight to be calibrated. After the input, put the weight on the weighing platform, and then press the enter key. If there is a decimal point, you need to add zero

Example: 200.0 g for full scale, 50 g for calibration, then enter 500 for calibration weight

200.00 g for full scale, 50 g for calibration, then enter 5000 for calibration weight

The full scale weighs 200.000 g, and 50 g is used for calibration, then the calibration weight value is entered as 50000

§ 2-5 I/O Interface

INPUT SCREW DESCRIPTION

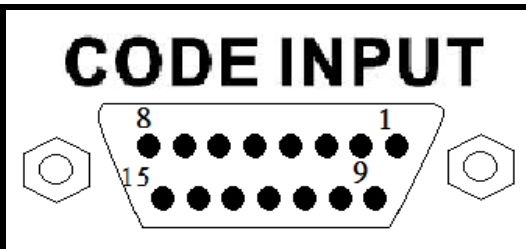
Screw	Signal Name	Description
INPUT 1	ZERO Input	BDI-9903C returns to the center of ZERO when the weighing device is empty
INPUT 2	Clear Accumulated Value and Count Input	If this command is accepted, all the accumulated weigh and accumulated count will be cleared
INPUT 3	START	Check Weigh Start
INPUT 4	STOP	Check Weigh Stop
INPUT 5	Location Detection (Level Input)	Location Detection timing signal
INPUT 6	Unused	
INPUT 7	Unused	
INPUT 8	+ (24V) Output	
COM 1	INPUT Common	

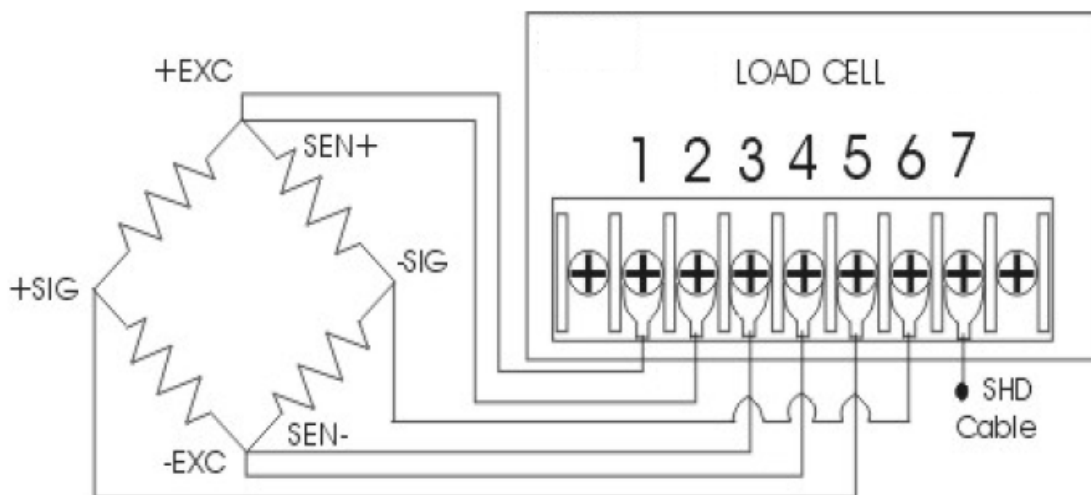
OUTPUT SCREW DESCRIPTION

Screw	Signal Name	Description
OUTPUT 1	ZERO BAND Output	GROSS Weight < ZERO Band
OUTPUT 2	RUN Output	Conveyor ON
OUTPUT 3	CHECK BUSY	Check Weighing Busy
OUTPUT 4	OK	ON when in target range
OUTPUT 5	HI	ON when HI is exceed
OUTPUT 6	LO	ON when LO is exceed
OUTPUT 7	ERROR	
OUTPUT 8	Unused	
OUTPUT 9	Unused	
COM 2	OUTPUT Common	

Code Input Connector

Pin		Signal	
1	1 ×1	6	2 ×10
2	2 ×1	7	4 ×10
3	4 ×1	8	8 ×10
4	8 ×1	9	1 ×100
5	1 ×10	10	Common





Screw	Signal
1	《Positive Excitation Voltage , EXC+》
2	《Positive Sense Voltage , SEN+》
3	《Negative Sense Voltage , SEN-》
4	《Negative Excitation Voltage , EXC-》
5	《Positive Signal Voltage , SIG+》
6	《Negative Signal Voltage , SIG-》
7	《Shield , SHD》

★To connect your load cell to the Weighing Indicator use a six-wire cable with shield-connect the wires as indicated above. If the BDI-9903C is located near the Load Cells (within five meters or a few yards) you may use a 4-wire cable with shield, but first connect screws 1 & 2 and 3 & 4 with independent jumwer leads.

§ 2-6 Errors

§ 2-6-1 Pro-face Errors

Error 1: Parameter setting is incorrect.

Lower limit > Upper limit or Upper and lower limits exceed the maximum weighing capacity. Please change the upper and lower limits.

Error 2: The modification group is not saved.

Press Save to save the group.

Error 3: The modified parameters are not stored.

Press Save to save the parameters.

Error 4: Starting beyond the zero range.

Please zero or remove items

Error 5: Duplicate detection.

After the error is eliminated, the error is reset.

§ 2-6-2 Calibration Errors

Error 1: The resolution exceeds 1: 30000.

Change the minimum scale or maximum scale to make the resolution within 1/30000

Error 2: Zero correction: The load cell output is too large.

Please connect low temperature coefficient precision resistor between EXC + and SIG- between 50K ~ 500K

Error 3: Zero point correction: The load cell output is too small.

Please connect low temperature coefficient precision resistor between EXC + and SIG + between 50K ~ 500K

Error 4: The weight value entered is greater than the weight value set for the maximum weighing capacity.

Please change the entered weight value and weight

Error 5: The weight value entered is less than the minimum scale.

Please change the entered weight value and weight

Error 6: The load element output signal line is opposite or the load element output is too small.

Please check if the line is reversed

Error 7: The load cell output voltage is too small to meet the minimum scale

Please change to a larger load cell or increase the minimum scale