



ICS Electronic Belt Scale

Suzhou Guonuo Information Technology Co., Ltd.

Precise Intelligent Stable Reliable



ICS Electronic Belt Scale Overview

Developed by Guonuo Technology, the ICS Electronic Belt Scale is a dynamic weighing device designed for continuous, real-time measurement of bulk materials during conveyor operations. It accurately captures instantaneous flow rates and cumulative weight without interrupting material flow, ensuring seamless integration into industrial processes.

**Accurate
Measurement**

**Stable
Performance**

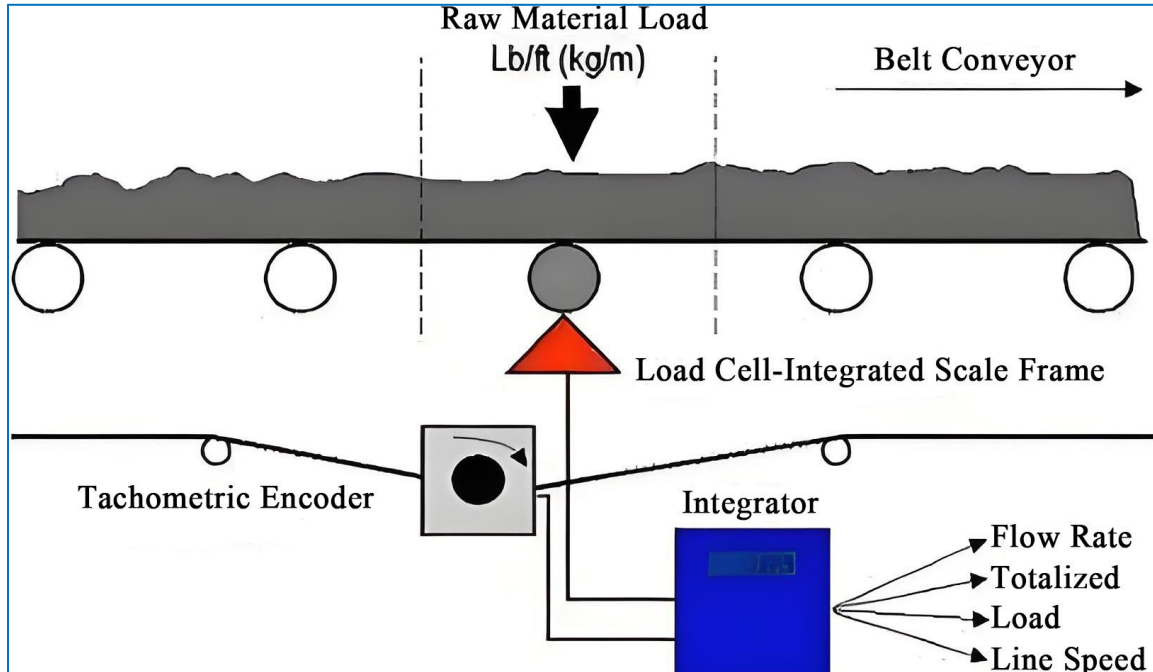
**Low
Maintenance**

**Easy
Operation**

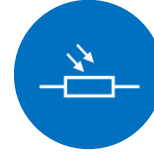
**Wide
Application**



Working Principle of ICS Electronic Belt Scale

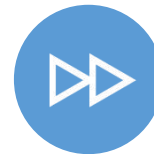


The ICS Electronic Belt Scale comprises four core components: weighing bridge frame, load cells, speed encoder, and weighing indicator.



Load Cell Operation:

Mounted on the weighing bridge frame, the load cells continuously detect the weight of materials passing over the conveyor belt. They generate weight signals proportional to the material load.



Speed Encoder Function:

The speed encoder monitors the belt's operational velocity and generates corresponding speed signals through pulse output, where pulse frequency aligns with belt speed.



Data Processing & Output:

The weighing indicator receives both weight and speed signals in real time. After filtering and A/D conversion, the integrated CPU performs computations to derive instantaneous flow rate and cumulative weight, which are displayed on the interface.

Functional Features of ICS Electronic Belt Scale

1 The instrument dynamically displays instantaneous flow rate, cumulative weight, belt speed, and other critical parameters. Data can be queried by year/month/day and printed for reporting.

2 Featuring a menu-guided interface, the system simplifies operations through visual interactions, enabling diverse and user-friendly controls.

3 Continuously monitors and intelligently analyzes the belt scale's status. Performs auto-zeroing and measurement compensation to ensure consistent accuracy under varying loads.

4 Detects anomalies in real time, including belt scale malfunctions, sensor failures, or communication errors. Triggers immediate alarms and provides diagnostic alerts.

5 Scientifically designed signal circuits, multi-protocol multi-channel outputs, automatic calibration/zeroing, and alarms for excessive or insufficient flow.

6 Configures multi-level access permissions and maintains comprehensive operation logs for audit trails and accountability.

7 Supports hanging weight verification, chain code calibration, auto-chain code, and physical material calibration, allowing flexible configurations based on site requirements.

8 Optional software modules, such as remote monitoring systems and metering management software, enhance data analysis and integration with smart factory platforms.

Product Components



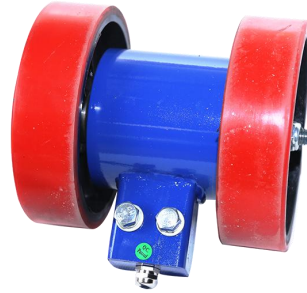
Weighing Bridge Frame

High-strength carbon steel with monolithic construction, offering corrosion resistance, rust-proofing, and impact resistance to ensure weighing stability. Customizable configurations adapt to client-specific operational conditions.



Digital Load Cell

Stainless steel housing with dual-layer sealing and digital signal processing technology. Combines high precision, stable signal transmission, extended service life, and operational stability.



Speed Encoder

Twin-wheel carriage structure with DC pulse generator delivers accurate speed signals. Enhanced anti-interference capabilities and environmental resilience for harsh conditions.



Intelligent Terminal

Integrates multi-source data fusion, one-touch calibration, and auto-zero tracking technology. Robust anti-jamming algorithms and high-speed processing ensure real-time accuracy.



Data Acquisition Unit

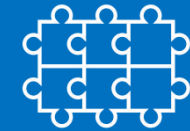
Collects multi-sensor data (weight, speed, temperature, angle) and processes analog/digital signals. Preprocessed datasets are transmitted to the terminal for centralized analysis.

FSD High-Precision Electronic Belt Scale



High Accuracy

Maintains **0.2%** precision long-term.



Simple Structure

Composed of **2-8** sets of four-idler fully suspended frames, self-weight reduced by **20%**.

High Precision

Self-Checking

Maintenance-Free

Long-Term Stability

Designed and developed by Guonuo Technology, the FSD Suspended High-Precision Electronic Belt Scale effectively addresses historical challenges of traditional belt scales, such as short effective weighing areas, stringent installation requirements, difficult calibration, high maintenance demands, and extensive repair workloads. It successfully achieves **self-calibration, maintenance-free operation, high accuracy,** and exceptional long-term stability, maintaining a precision of **0.2%** over extended use while eliminating routine maintenance.

Technological Innovations

Direct-Loading Combined Frame Design

Utilizes **2–8 sets of four-idler fully suspended frames** arranged in a modular configuration. This independent design reduces structural weight by **20%** and minimizes mechanical errors caused by frame deformation.

Direct Force Transmission via 4 Load Cells

Equipped with **4 high-precision digital load cells**, featuring stability, anti-lateral force resistance, sealed design, temperature compensation, overload protection, and higher sensitivity to ensure measurement accuracy.

Temperature Compensation Technology

The instrument features a **built-in temperature sensor** for real-time ambient temperature monitoring, integrated into its algorithms to compensate and correct load cell parameter variations (zero point, sensitivity coefficients).

On-Site Analog-to-Digital (A/D) Conversion

Localized digital converters perform **A/D conversion directly** at the weighing frame. This design strengthens anti-interference capabilities, extends signal transmission distances, and guarantees high-precision data integrity.

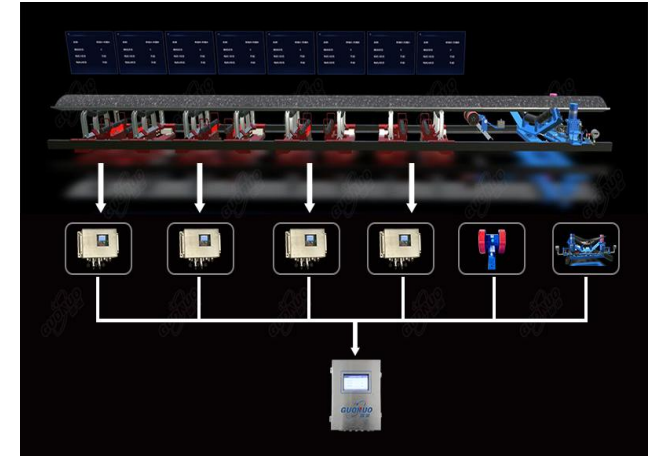
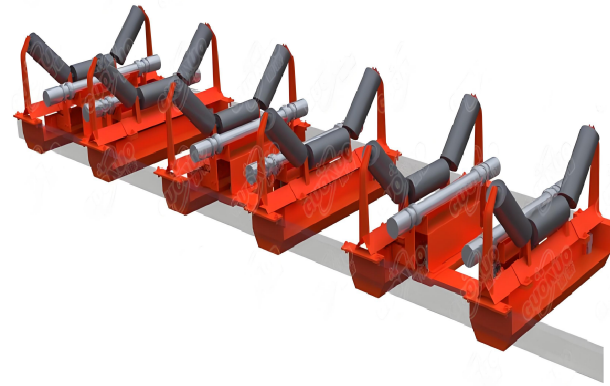
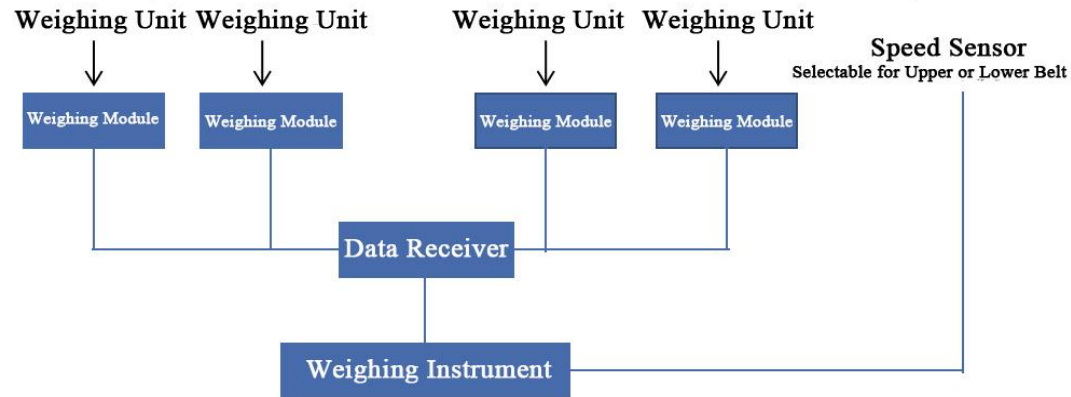
Real-Time Monitoring & Tracking

Sensor health monitoring: Automatically switches to backup sensors during failures to maintain uninterrupted operation. Belt tension compensation: Tracks belt elongation and compensates for tension variations, sustaining long-term accuracy at **0.2%**.

Cloud Platform Software System

A weighing management system developed by Guonuo Technology using IoT and big data, featuring network-wide interconnection of weighing devices, real-time display of device data, **automatic monitoring, intelligent diagnostics**, predictive analytics, and remote supervision.

Working Principle



Unlike conventional belt scales, the high-precision model adopts a unique design philosophy: it integrates **2–8 weighing bridge frames** into a modular, aligned weighing unit array. Each unit is equipped with **four high-precision load cells** designed to resist lateral forces.

The intelligent control instrument, powered by a high-performance computing core, processes data from each weighing unit in real time. It independently monitors the **analog-to-digital (AD) signals** of each load cell, triggers out-of-tolerance alarms, performs fault diagnosis, and automatically switches to backup sensors during failures to ensure continuous and stable operation.

Technical Specifications

Technical parameters confirm the FSD high-precision electronic belt weigher excels in adaptability to belt conveyors and operating conditions, with higher measurement accuracy.



Calibration Accuracy	Weighing Range	Belt Conveyor Inclination Angle	Belt Width	Belt Speed	Load Cell	Weighing Idler Group	Pressure Lever	Trunnion	Speed Sensor
±0.12 5%	1- 8000t/h	≤20°	500 - 2400 mm	0.1~ 5m/s	4	2 Group s	Suspended	Not Have	1

Features of the Weighing Frame

High Accuracy & Stable Operation

- Direct-loading frame design minimizes force transmission links, ensuring effective force application.
- No pivot bearings or moving parts, reducing mechanical interference on measurement.
- Simplified and independent structure reduces self-weight by 20%, minimizing its impact on accuracy.
- Vertical force dominance (resists horizontal/lateral forces), ensuring long-term stability and reliability.



Easy Installation & Maintenance-Free

- Compact modular design requires minimal installation space; simple setup saves time and labor.
- Anti-material adhesion: Smooth surfaces and reduced dust accumulation eliminate frequent cleaning needs.

ICS-17 Electronic Belt Scale

The ICS-17 Electronic Belt Scale includes two models, ICS-17A and ICS-17B, both featuring rubber trunnion-supported levers and a dual-load cell configuration.

ICS-17A

- Four-idler, dual-lever structure with two tension-type high-precision load cells.
- Frictionless trunnion pivot points on the outer supports effectively counteract material unevenness and conveyor incline, ensuring superior environmental adaptability.



ICS-17B

- Shares structural similarities with ICS-17A but adopts a shorter weighing zone (half of ICS-17A's length).
- Two-idler, single-lever structure offers simplified design, easy installation/commissioning, and low maintenance costs.

Structural Features

Lever pivot points minimize horizontal force components, ensuring higher measurement accuracy.

Unique rectangular lever structure offers high rigidity, lightweight design, and deformation resistance.

Extended weighing zone with enhanced signal filtering capabilities delivers superior stability.

Resists lateral and horizontal forces, minimizing belt misalignment and material spillage impacts on accuracy.

Robust construction allows reliable operation in harsh environments.

Dual load cells reduce partial load effects, enhancing operational stability and precision.



Technical Specifications

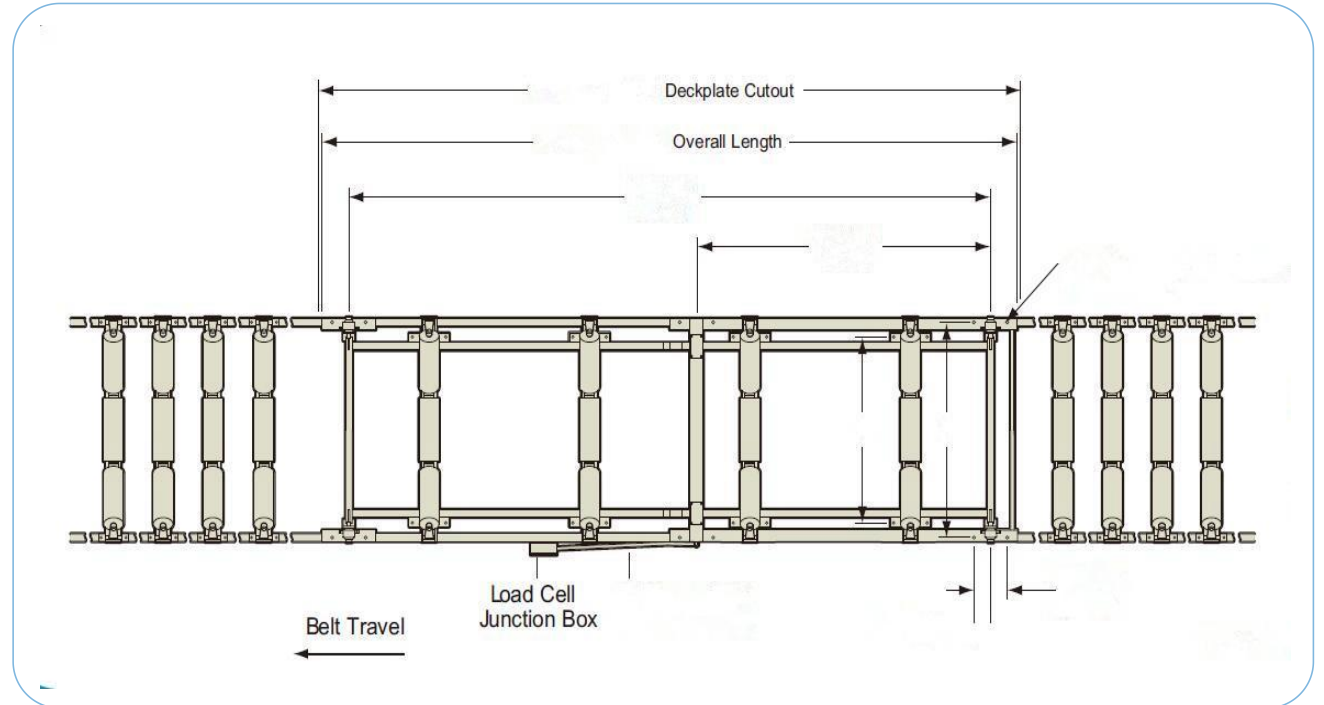
Technical Specifications	ICS-17A	ICS-17B
Calibration Accuracy	$\leq \pm 0.25\%$	$\leq \pm 0.25\%$
Dynamic Accuracy	$\pm 0.5\%$	$\pm 0.5\%$
Belt Conveyor Inclination	$\leq 17^\circ$	$\leq 17^\circ$
Load Cell	2	2
Speed Sensor	1	1
Weighing Bridge	Double Lever Type	Single Lever Type
Metering Idler	4 Groups	2 Groups
Trunnion	4	2

The ICS-17B electronic belt scale can theoretically match the metering performance of the ICS-17A model. However, the ICS-17A offers a longer weighing zone, stronger environmental adaptability, and better practical application results.



Model Selection Parameters

Belt Width \ Model	A	B	C	D
500	720	622	362	Idler Spacing
650	870	722	512	
800	1070	972	712	
1000	1300	1202	932	
1200	1550	1452	1182	
1400	1750	1652	1382	
>1400				

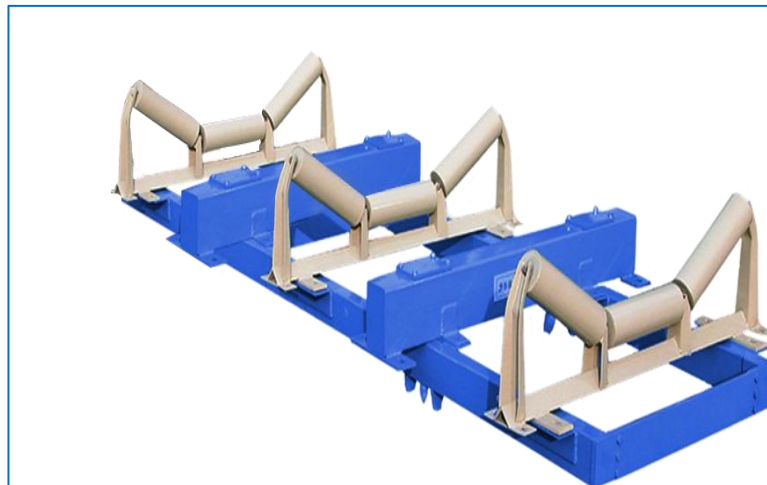
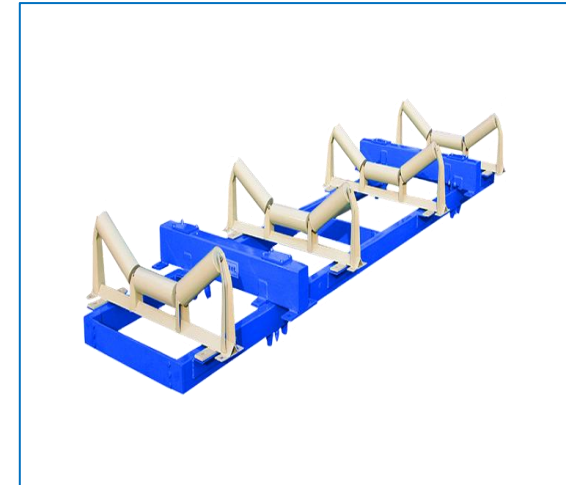
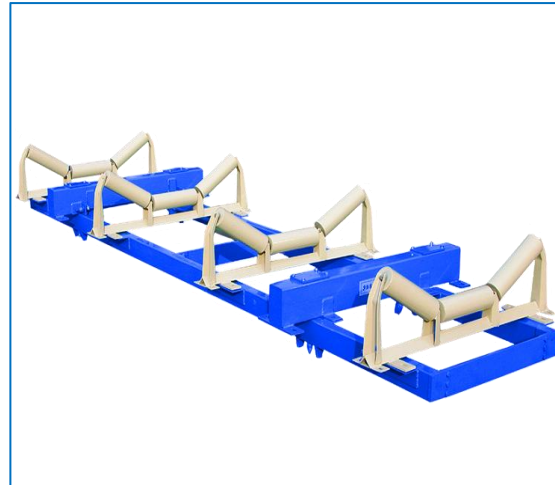


ICS-14 Electronic Belt Scale

The ICS-14 electronic belt scale is available in two models: ICS-14A and ICS-14B. Featuring a fully suspended weighing bridge structure with no pivot points or movable components, these models deliver superior long-term stability and measurement accuracy compared to other ICS belt scales, meeting the requirements for custody transfer applications.

ICS-14A

- The ICS-14A belt scale features a four-idler, fully suspended weighing bridge structure with no trunnion pivot points or moving parts.
- Its lighter mechanical components ensure minimal structural interference during weighing.



ICS-14B

- The ICS-14B model shares the structural advantages of the ICS-14A but utilizes a three-idler, fully suspended design.
- This configuration is designed for applications with smaller conveyor inclinations, limited installation space, and stringent measurement accuracy requirements.

Structural Features

Fully suspended weighing bridge structure with no pivot points or moving parts, ensuring high measurement accuracy.

Equipped with four tension load cells directly suspended from the crossbeam, the system minimizes eccentric loading effects.

Extended weighing zone with enhanced signal filtering capability for improved stability.



Robust load-bearing design suitable for harsh environments, maintaining stable operation.

Unique rectangular frame offering high rigidity, low deadweight, and resistance to deformation.

Resists lateral and horizontal forces, minimizing measurement errors caused by belt misalignment and material spillage.

Model Selection Parameters

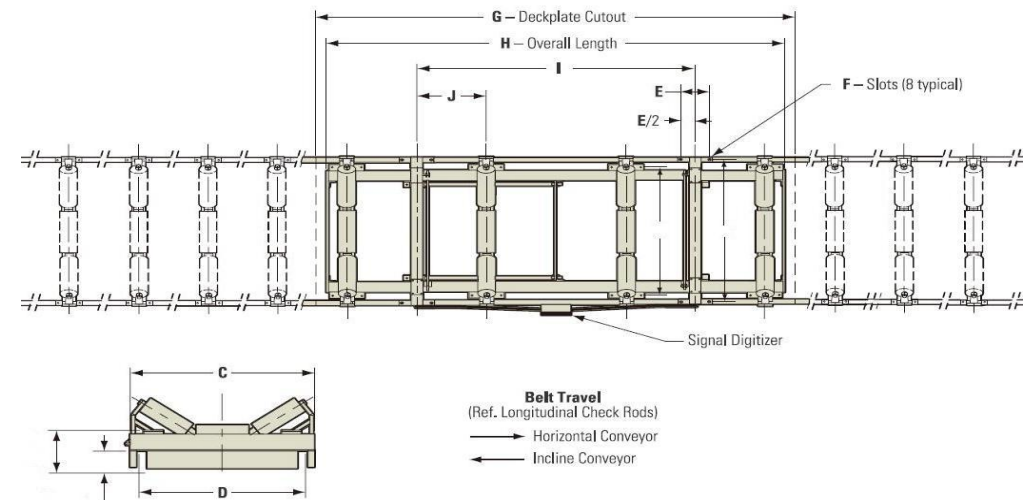
Belt Width Specifications

Belt Width(mm)	Length(mm)					
	A	B	C	D	E	F
457	540	686	749	591	191	1.43×25.4
508	591	737	800	641	191	1.43×25.4
610	692	838	902	743	191	1.43×25.4
762	845	991	1054	895	191	1.43×25.4
914	743	1143	1207	1048	191	1.43×25.4
1067	1149	1295	1359	1200	254	2.06×25.4
1219	1302	1448	1511	1353	254	2.06×25.4
1372	1454	1600	1664	1505	254	2.06×25.4
1524	1607	1753	1816	1657	254	2.06×25.4
1829	1911	2057	2121	1962	254	2.06×25.4
2134	2216	2362	2426	2267	254	2.06×25.4

Idler Spacing Specifications

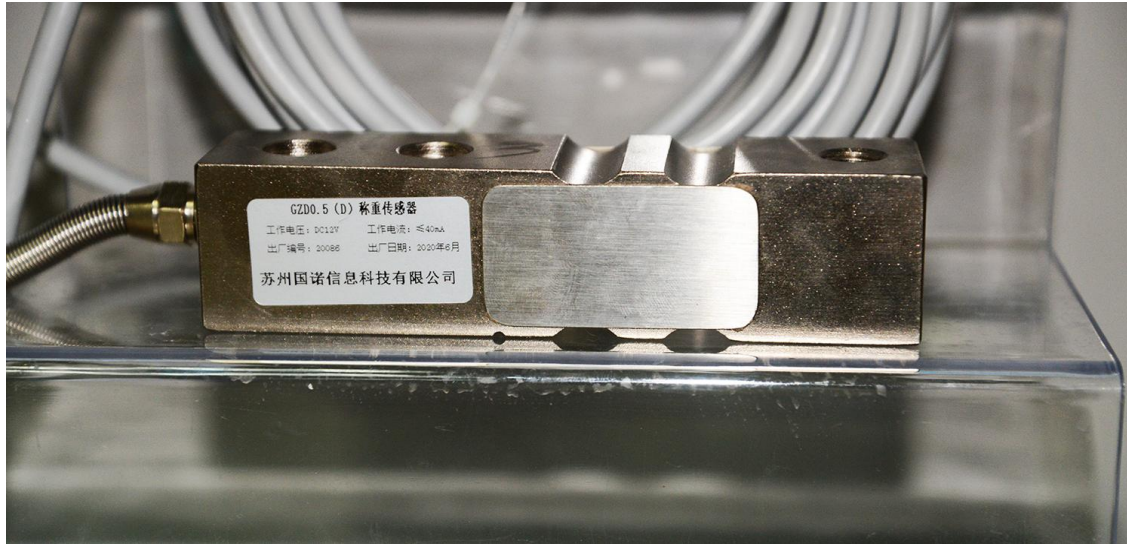
Idler Spacing(mm)	Length(mm)			
	G	H	I	J
914	3302	3099	1524	305
1067	3734	3531	2438	686
1219	4191	4013	2438	610

Scale Frame Specifications



Digital Load Cell

Guonuo Tech digital load cells are primarily classified into two types: **Cantilever-Beam Digital Load Cells** and **S-Type Digital Load Cells**.



Cantilever-Beam Digital Load Cell

Optimized for precision load measurement in applications including:

FSD high-precision electronic belt scales, ICS-30 electronic belt scales, and belt weigh feeders.

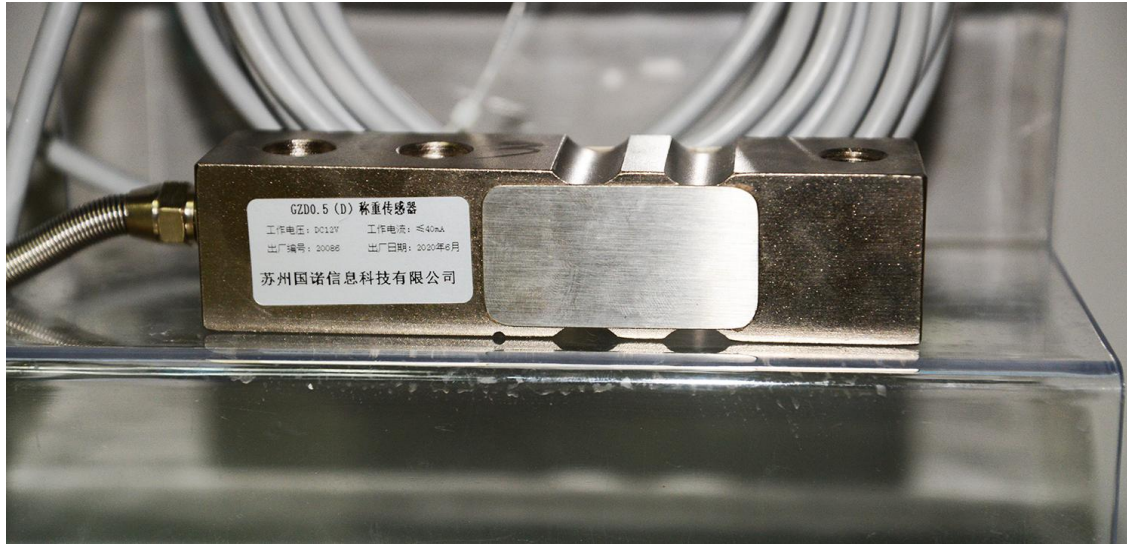
S-Type Digital Load Cells

Designed for weight measurement in electronic weighing systems such as:

ICS-17A/B electronic belt scales, ICS-4A/B electronic belt scales, and screw weigh feeders.



Cantilever-Beam Digital Load Cell



Cantilever-Beam Digital Load Cell

Stable output signal with strong anti-interference capability. High-speed transmission over long distances. Automatic range calibration minimizes errors, ensuring high precision and efficiency. IP65 protection resists harsh environments. Overload protection prevents damage.

Technical Specifications

Rated Operating Voltage	Operating Current	Basic Error	Signal Transmission	Transmission Rate	Measuring Range	Fuse Rating
DC12V	$\leq 40mA$	$\leq 0.02\%$ (F.S.)	RS485	9600bps	(0 ~ 0.25)T	32V 0.1A



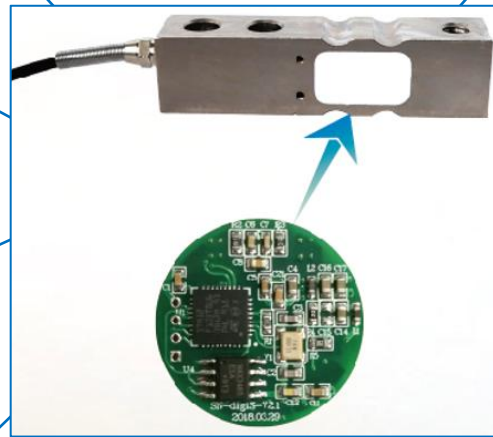
Product Features

32-bit processor core running real-time embedded system.

Fieldbus technology enables faster digital communication and longer transmission distance for enhanced reliability.

Digital sensors feature high protection rating, strong anti-interference capability, and high measurement accuracy.

Fault detection/correction ensures 24/7 uninterrupted operation.



Remote self-diagnosis pinpoints faults for intelligent maintenance.

Adjustable digital sensor addresses simplify replacement and servicing.

Built-in compensation circuits and algorithms optimize linearity, hysteresis, and creep for precision performance.

Alloy steel construction ensures enhanced stability, impact resistance, and environmental adaptability.

S-type Digital Load Cell

This S-type resistive strain gauge load cell is designed for weight measurement, converting weight signals into voltage signals through AD sampling to transform analog signals into digital outputs. Its internal structure comprises four key components: an elastic element, resistive strain gauges, a measurement circuit, and transmission cables. When external force deforms the elastic element, the attached strain gauges undergo corresponding deformation, thereby altering their electrical resistance to generate measurable signals.

Premium Material & Sealing

Constructed with high-quality alloy and sealed with silicone rubber potting technology, ensuring durability and reliable performance in harsh environments.

High Precision & Stability

Combines exceptional sensitivity, accuracy, and environmental resistance for stable measurements and extended service life.

Advanced Signal Transmission

Integrated digital signal processing ensures accurate load signal transmission over extended distances.

Robust S-Type Shear Structure

Engineered with a unique shear-resistant design to withstand high compression forces.

Auto-Calibration Technology

Minimizes error factors with a combined nonlinearity, hysteresis, and repeatability of $\leq 0.04\%$ RO, guaranteeing high efficiency and precision.

Compact & Easy Installation

Space-saving design with simplified mounting procedures for versatile applications.



Speed Measurement Encoder



Tachometer Sensor

The tachometer sensor features a unique dual-wheel design to accurately monitor drum rotation speed. It converts belt speed into 360 pulses per revolution (360P/R) and transmits signals to the host via MHYVRP1×4 cable. Real-time data acquisition enhances measurement precision in belt speed detection.

Technical Specifications

Detection Range	20~2000 RPM
Communication Interface	RS485 or CAN
Compatibility	Installed on the upper surface of return belts; compatible with FSD High-Precision, ICS 14 Series, and ICS 17 Series belt scales.

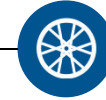


Product Features

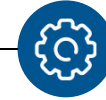
Digital processing technology converts speed signals to digital format, enhancing anti-interference capability and measurement accuracy.



High-performance brushless DC pulse generator ensures durability for outdoor applications, requiring no calibration or maintenance.

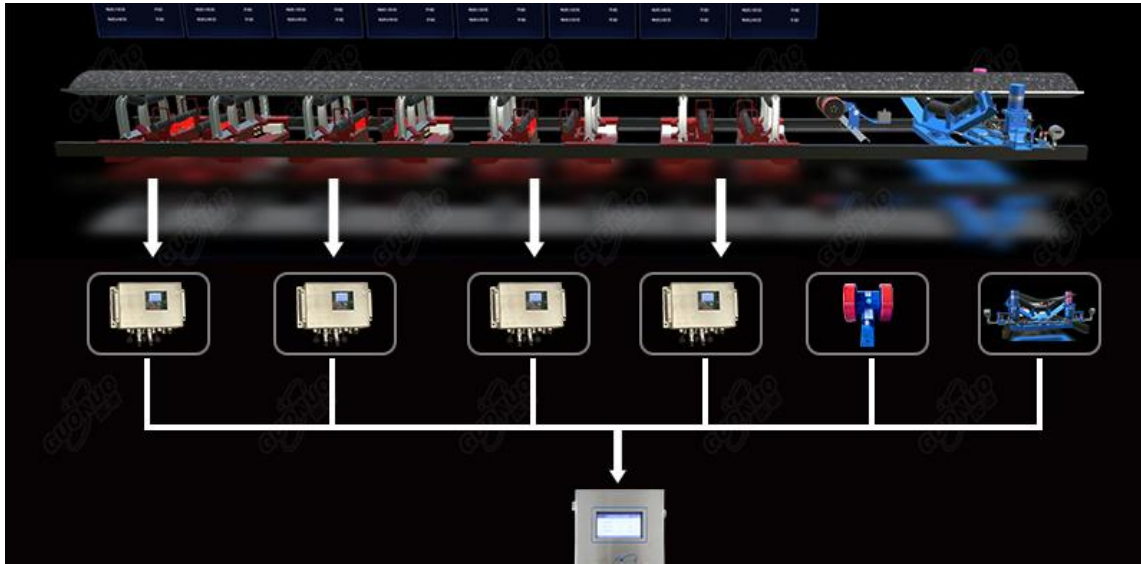


Dual-wheel carriage design enables real-time sampling of the belt's underside speed, eliminating errors from slippage or tension variations.



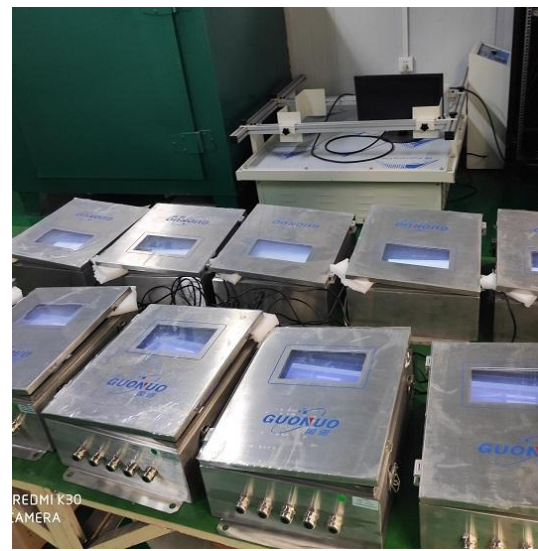
Carbon steel housing provides robust mechanical strength, with EMI shielding and sealed construction for superior environmental resilience.

Intelligent Meter



Multi-Source Data Fusion Intelligent Meter

The multi-source data fusion meter delivers high performance with premium stainless steel construction. Features a true-color LCD display with backlight for clear visibility of real-time parameters: instantaneous flow, total accumulation, and belt speed. Equipped with one-touch calibration and auto-zero tracking technology for enhanced anti-interference capability. Supports diverse industrial protocols through multiple communication interfaces.



Product Features

High-Performance Processing

Equips a 32-bit 180MHz processor for stable operation and computational accuracy, paired with a 16-bit DA converter for precise 4-20mA signal output.

Advanced Signal Processing

Integrates anti-interference signal processing chips to achieve millisecond-level weight data acquisition and edge computing.

IoT Connectivity

Supports MODBUS communication protocol and built-in IoT modules for remote parameter queries, real-time data transmission, and server synchronization.



Intelligent Diagnostics

Automatically monitors and diagnoses the operational status of load cells, triggering alarms and logging faults for proactive maintenance.

Data Management

Features high-capacity Flash storage for historical data retrieval by day/month/year.

User-Centric Design

Simplified operation via a configurable soft-key interface with intuitive navigation for core functions.

Operation Interface

Weight: t
 Flow : t/h
 Speed: m/s

En/中



【Main Interface】

Parameter Setting

Speed Setting | Weight Setting | Flow Output | Pulse Output | Alarm setting | Communication

Velocity Measurement ON

Sensor Circumference mm
 Number of sensor pulses p/r
 Belt Circumference m
 One Lap Time s

Velocity Measurement
 1、Default velocity measurement;
 2、The sensor is powered by 12V;
 3、Click "ON" button to switch velocity measurement and simulation speed;
 4、Input sensor circumference;
 5、Input number of sensor pulses;
 6、Input belt circumference;
 7、Input one lap time;
 8、Click "Save" button;

【Speed Setting】

Parameter Setting | Calibration Setting
 Shift Setting | Production Query
 Factory maintenance | Operation Records

【Main Interface】

Parameter Setting

Speed Setting | Weight Setting | Flow Output | Pulse Output | Alarm setting | Communication

Simulation Speed ON

On Off Sensor
 Belt Circumference m
 One Lap Time s
 Simulation Speed Value m/s

Simulation Speed
 1、Default velocity measurement
 2、Click "ON" button to switch velocity measurement and simulation speed;
 3、Select on off sensor to be "normal open" or "normal closed";
 4、Input belt circumference;
 5、Input one lap time;
 6、Input Simulation Speed Value;
 7、Click "Save" button.

【Simulation Speed】

Operation Interface

Parameter Setting

Speed Setting **Weight Setting** Flow Output Pulse Output Alarm setting Communication

Number of rollers

Roller Interval mm

Number of fulcrum

Sensor Range Kg

Number of sensors/Unit Board

Sensor Sensitivity

Sensor Type

Weight Setting

- 1、 Input number of rollers;
- 2、 Input roller Interval;
- 3、 Input number of fulcrum;
- 4、 Input sensor range;
- 5、 Input number of sensors or unit board;
- 6、 Select sensor sensitivity;
- 7、 Select sensor type;
- 8、 Click "Save" button.

Save Return

【Weight Setting】

Parameter Setting

Speed Setting Weight Setting **Flow Output** Pulse Output Alarm setting Communication

Flow Output

Output Mode

Full Range t/h

Flow Output

- 1、 Default flow output function is turned on;
- 2、 Click "ON"/"OFF" button to turn on or turn off the flow output function;
- 3、 Select flow output mode;
- 4、 Input full range;
- 5、 Click "Save" button.

Save Return

【Flow Output Configuration】

Parameter Setting

Speed Setting Weight Setting Flow Output **Pulse Output** Alarm setting Communication

Pulse Output

Pulse Width ms

Pulse Scale Kg

Flow Output

- 1、 Default pulse output function is turned on;
- 2、 Click "ON"/"OFF" button to turn on or turn off the pulse output function;
- 3、 Input pulse width;
- 4、 Input pulse scale;
- 5、 Click "Save" button.

Save Return

【Pulse Output Configuration】

Parameter Setting

Speed Setting Weight Setting Flow Output Pulse Output **Alarm setting** Communication

Communication Detection

Weighing Sensor Detection

Velocity Sensor Detection

Flow Upper Limit t/h

Flow Lower Limit t/h

Sensor Upper Limit mV


Alarm Setting

- 1、 The default detection function is turned on. If there is any exception, an alarm will be issued
- 2、 Click "ON"/"OFF" button to turn on or turn off detection function of this option;
- 3、 Input flow upper limit;
- 4、 Input flow lower limit;
- 5、 Input sensor upper limit;
- 6、 Click "Save" button.

Save Return

【Alarm Configuration】

Operation Interface

 **Parameter Setting**

Speed Setting Weight Setting Flow Output Pulse Output Alarm Setting **Communication**

RS485

Own Number

Baud Rate ▼

Cloud Platform ▼

Ethernet interface

IP address

Subnet mask

Gateway IP


MAC address

Server address

Port number

Save Return

【Communication Configuration】

 **Calibration Setting**

Zero Calibration Actual Material Hanging Weight Chain Weight Speed Calibration

Count Down: S

One Lap Time: S

Running cycles:

Current Zero: mV

Calibration Zero: mV


Start Stop

Zero Calibration
1、 Enter the number of belt runs;
2、 Click "start" button to start zero calibration;
3、 Calibration is completed at the end of the countdown;
4、 You can also click the "stop" button to manually end the calibration
5、 Click the "save" button after the calibration is completed.

?

Save Return

【Zero Calibration】

 **Calibration Setting**

Zero Calibration **Actual Material** Hanging Weight Chain Weight Speed Calibration

Timing: S

Test Weight: Kg

Physical Weight: Kg

Current K Value:

Calibration K Value:


Start Stop

Actual Material Calibration
1、 Click "start" button to start actual material calibration;
2、 Click "stop" Button after material passed to end measurement;
3、 Enter physical weigh;
4、 Click "save" button to update the K value.

?

计入产量 Save Return

【Physical Calibration】

 **Calibration Setting**

Zero Calibration Actual Material **Hanging Weight** Chain Weight Speed Calibration

Count Down: S

Running Cycles:

Hanging Weight Kg

Cumulative Weight: Kg

Standard Weight: Kg

Calibration K Value:

Current K Value:

Hang Drop Start Stop

自动校准


在线校准

?

计入产量 Save Return

【Hanging Weight Calibration】

Operation Interface


Calibration Setting

Zero Calibration
Actual Material
Hanging Weight
Chain Weight
Speed Calibration

Count Down: S

Running Cycles:

Chain Weight Kg/m

Cumulative Weight: Kg

Standard Weight: Kg

Calibration K Value:

Current K Value:

Start
Stop


Hanging Weight Calibration

- 1、 Enter the number of belt runs;
- 2、 Enter chain weight;
- 3、 Calibration is completed at the end of the countdown;
- 4、 You can also click the "stop" button to manually end the calibration;
- 5、 Click "save" button to update the K value.


?

计入产量
Save
Return

【Chain Weight Calibration】


Calibration Setting

Zero Calibration
Actual Material
Hanging Weight
Chain Weight
Speed Calibration

Speed Calibration ON 

Count Down: S

One Lap Time: S

Running Cycles:

Belt Circumference: m

Speed COefficient:

Start
Stop


Speed Calibration

- 1、 Turn this feature on or off by clicking "ON"/"OFF" button;
- 2、 Enter the number of belt runs;
- 3、 Click "Start " button;
- 4、 Calibration is completed at the end of the countdown;
- 5、 You can also click the "stop" button to manually end the calibration;
- 6、 Click "save" button to enable coefficient

?

Save
Return

【Speed Calibration】


Shift Setting


Current Time

Shift division v Current shift:

Second Shift Period : - : Duration h

Save
Back

【Shift Setup – Shift 1】


Shift Setting

Current Time

Shift division v Current shift:

Second Shift Period : - : Duration h

Second Shift Period : - : Duration h

Save
Back

【Shift Setup – Shift 2】

Operation Interface

Shift Setting

Current Time

Shift division ▼ Current shift:

Second Shift Period : - : Duration h

Second Shift Period : - : Duration h

Second Shift Period : - : Duration h

【Shift Setup – Shift 3】

Shift Setting

Current Time

Shift division ▼ Current shift:

Second Shift Period : - : Duration h

Second Shift Period : - : Duration h

Second Shift Period : - : Duration h

Second Shift Period : - : Duration h

【Shift Setup – Shift 4】

Production Query

Date : Year Month Day Daily Production: t

Production(t)

First Second Third Fourth

Shift	Production(t)
First	
Second	
Third	
Fourth	

【Daily Production】

Production Query

Date : Year Month Monthly Production: t

Production(t)

Yield

0 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31

【Monthly Production Chart】

Operation Interface

Production Query

Date : Year Month Monthly Production: t

Date	Production	Date	Production	Date	Production
1		12		23	
2		13		24	
3		14		25	
4		15		26	
5		16		27	
6		17		28	
7		18		29	
8		19		30	
9		20		31	
10		21			
11		22			

【Monthly Production Table】

Factory Maintenance

Current Zero: mV Current Voltage: mV
 Current K Value: No. 1 Sensor/Unit: mV
 Pulse Frequency: Hz No. 2 Sensor/Unit: mV
 Belt Speed: m/s No. 3 Sensor/Unit: mV
 Current Shift: No. 4 Sensor/Unit: mV
 Excision Flow: t/h Current Net Weight: Kg
 X degree angle: ° Y degree angle: °

【Test Mode】

Factory Maintenance

Please Input Old Password

<input type="button" value="0"/>	<input type="button" value="1"/>	<input type="button" value="2"/>	<input type="button" value="3"/>	<input type="button" value="4"/>	<input type="button" value="5"/>
<input type="button" value="6"/>	<input type="button" value="7"/>	<input type="button" value="8"/>	<input type="button" value="9"/>	<input type="button" value="Clr"/>	<input type="button" value="Del"/>

【Password Setup – Enter Original Password】

Factory Maintenance

Please Input New Password

<input type="button" value="0"/>	<input type="button" value="1"/>	<input type="button" value="2"/>	<input type="button" value="3"/>	<input type="button" value="4"/>	<input type="button" value="5"/>
<input type="button" value="6"/>	<input type="button" value="7"/>	<input type="button" value="8"/>	<input type="button" value="9"/>	<input type="button" value="Clr"/>	<input type="button" value="Del"/>

【Password Setup – Enter New Password】

Operation Interface

Factory Maintenance

Detection Change Password **Restore Factory Setting** Fault Diagnosis Time Setting Input Code

Restore Factory setting

0 1 2 3 4 5
6 7 8 9 Clr Del

Confirm Return

【Factory Reset】

Factory Maintenance

Detection Change Password Restore Factory Setting Fault Diagnosis **Time Setting** Input Code

? Long press text to set the time

Save Return

【Time Setting】

Factory Maintenance

Detection Change Password Restore Factory Setting **Fault Diagnosis** Time Setting Input Code

Warning

Err_Code:
Err_Info:

Export Return

【Fault Diagnosis】

Factory Maintenance

Detection Change Password Restore Factory Setting Fault Diagnosis Time Setting **Input Code**

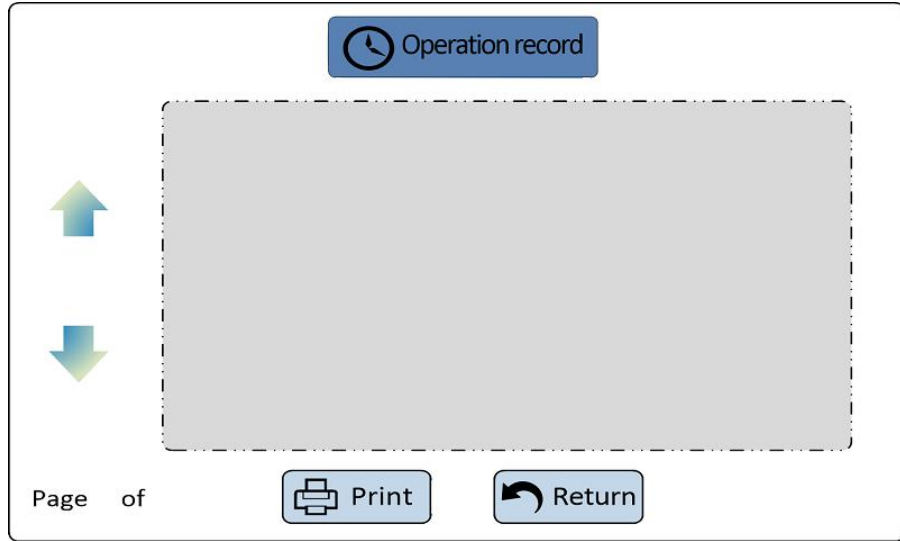
MAC:
CUD:

? Click the text box to enter the code

Save Return

【Code Input】

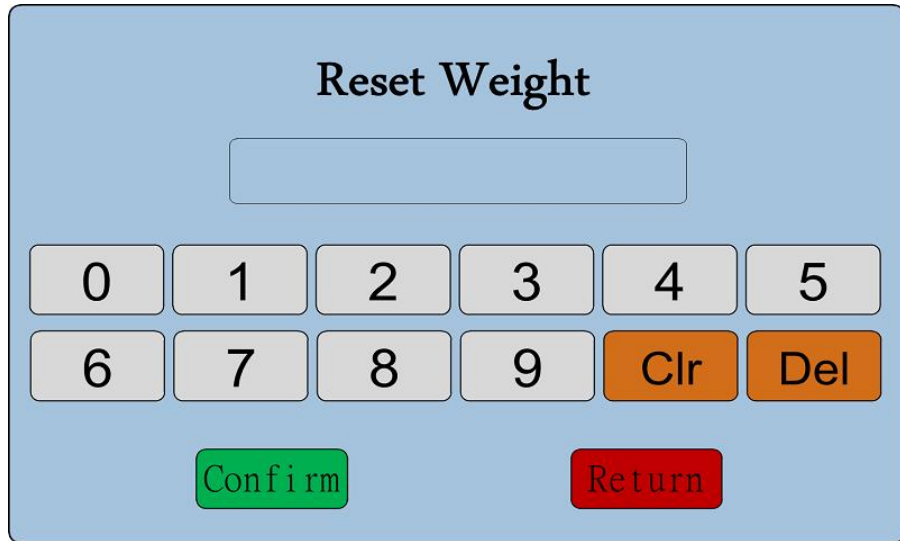
Operation Interface



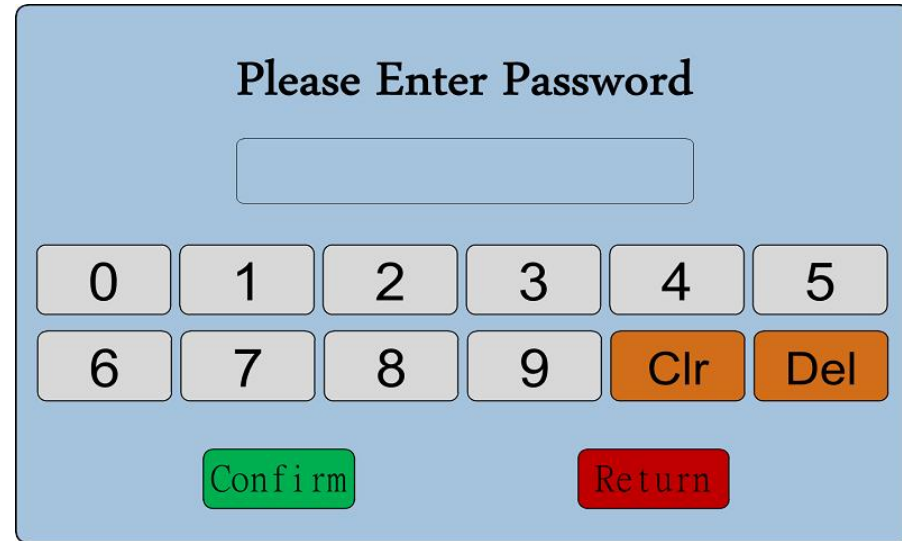
【Operation Log】



【Fault Diagnosis--Warning】

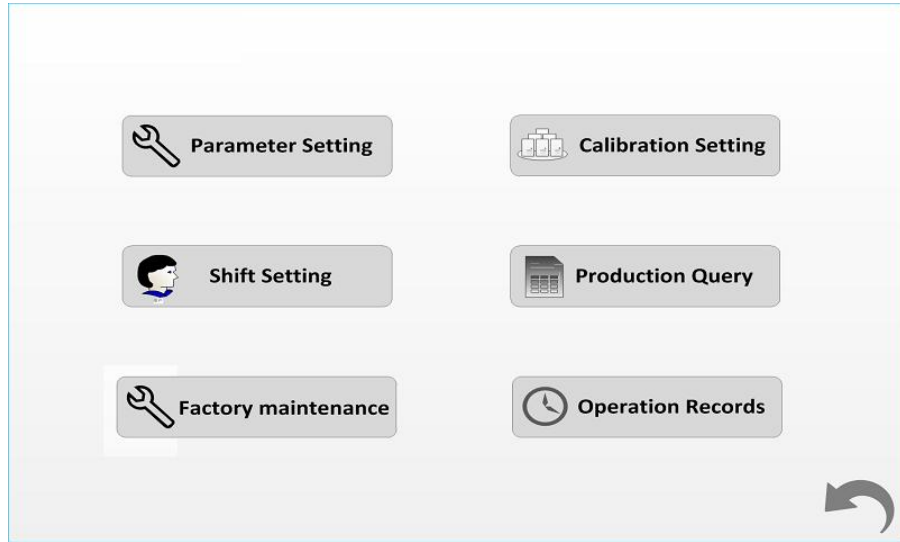


【Clear Accumulated Value】

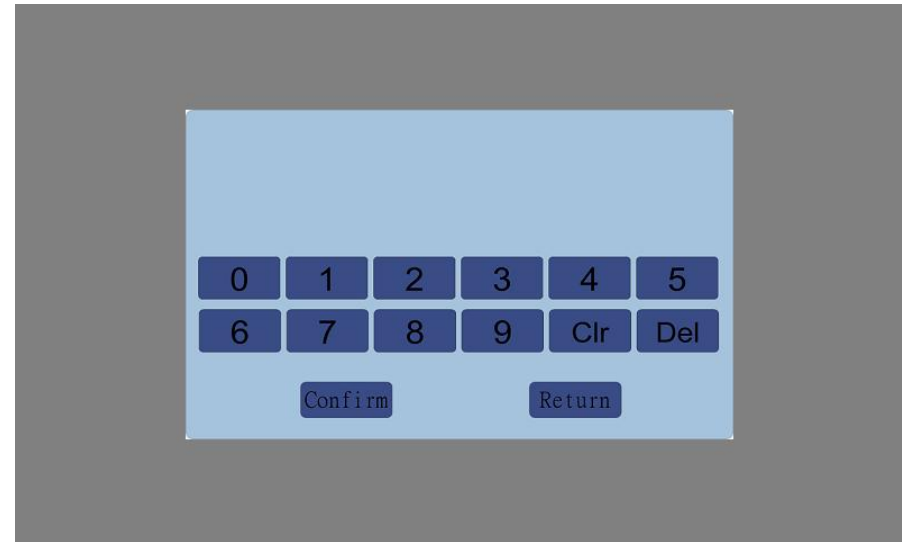


【Clear Accumulated Value – Enter Password】

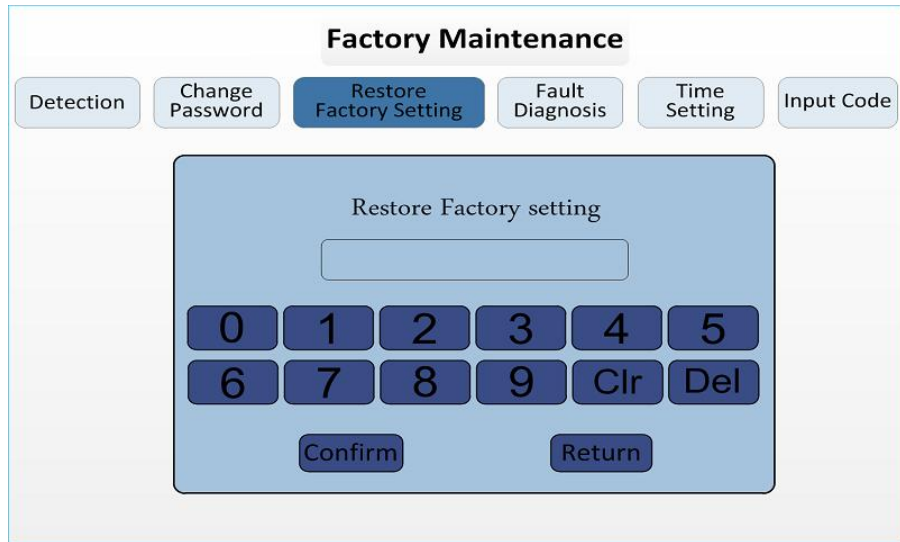
Operation Interface



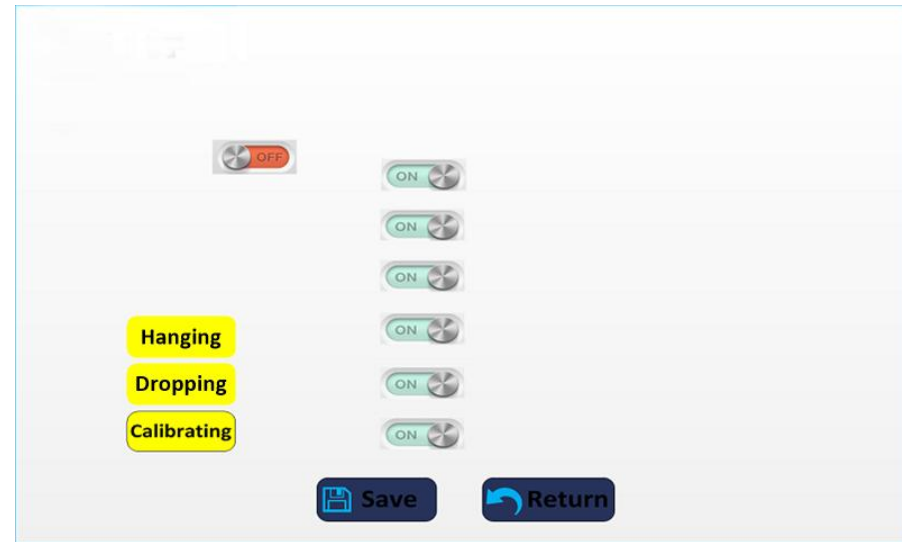
【Setting Effects】



【Pop-up Key Effects】



【Full Key Effects】



【Button Effects】

Data Acquisition Unit

Dedicated Data Conversion Module

Engineered specifically for belt scales to enhance measurement accuracy and stability.

32-bit Processor & Embedded System

Operates on a real-time embedded platform, ensuring 24/7 continuous production reliability.

Distributed Processing

Substations perform preliminary calculations per weighing unit and communicate with the host system.

Centralized Monitoring

Displays real-time sensor/speed status and fault alerts, streamlining maintenance without manual checks.



Microprocessor Control

RS485 output interface for robust industrial signal transmission.

Signal Isolation Circuits

Effectively suppress electromagnetic and heavy equipment interference.

Data Preprocessing


Digital filtering and anomaly detection algorithms ensure reliable signal conversion, even in harsh environments.


Durable Construction


304 brushed stainless steel housing with IP55-rated protection against water, dust, and corrosion.



Thank You for Reading

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