ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS（XI'AN) CO., LTD

INDUSTRIAL WEIGHING



ZEMIC

ZEMIC

MEASURING EXCELLENCE WORLDWIDE ,
TO BE A WORLD-CLASS PROVIDERS OF INTELLIGENT MEASUREMENT AND CONTROL PRODUCT SOLUTIONS.

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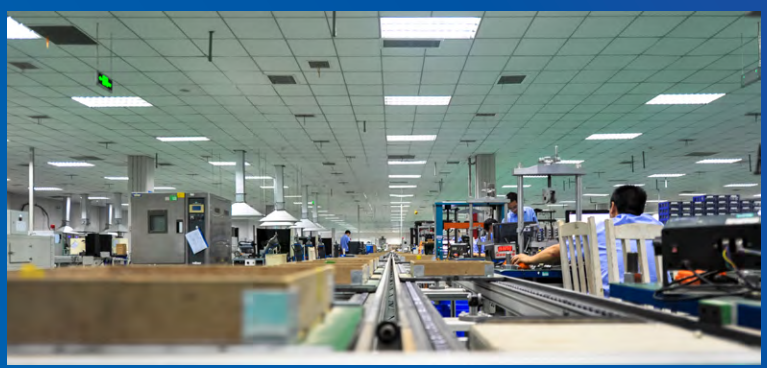
Zhonghang Electronic Measuring Instruments (Xi'an) Co., Ltd. (ZEMIC), a member unit of AVIC, specializes in "Intelligent Measurement and Control." Driven by a strategy of technological synergy, industrial integration, and value alignment, ZEMIC has established four core business divisions: Aviation, Sensing & Control, Digital Intelligence, and Intelligent Transportation. ZEMIC stands as a leading domestic provider of intelligent measurement and control products and system solutions.

ZEMIC aspires to "Become a world-class provider of intelligent measurement and control solutions." The company has developed a high-tech industrial ecosystem integrating R&D, testing, production, and self-developed automation equipment. ZEMIC boasts multiple internationally leading technologies and award-winning products, recognized as a National Manufacturing Single Champion, a Specialized, Refined, Distinctive, and Innovative (SRDI) Enterprise, and a National High-Tech Enterprise. Additionally, ZEMIC operates 10 provincial-level innovation platforms, including the Force Sensor Metrology Engineering Center.

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ZEMIC INTERNATIONAL CERTIFICATION

ZEMIC has accumulated rich experience in engineering applications, and can help you provide high-quality and reliable solutions. International certifications, country-specific certifications and city-specific certifications we can offer field authentication. Including: OIML, NTEP; ATEX, FM; CE, ISO9001, IS014001, IS045001, SIL.















ZEMIC 360 DEGREE COMPREHENSIVE SERVICE



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WEIGHING CONTROL SYSTEM INTRODUCTION

The weighing control system usually consists of weighing modules, junction boxes, and weighing instruments. The weighing module is installed at the waist or bottom of containers such as tanks, silos, and reactors, with transforming the container into a scale body, sensing weight changes, and outputting weight signals. The calibration, display, transmission and control are completed by the weighing instrument. Realize weighing measurement, formula management, material level control, inventory management, quality monitoring and othe functions. Our control system is widely used in petrochemical, metallurgical and building materials, animal husbandry, food and medicine, equipment manufacturing, new energy and other industries.

The high-precision weighing system provided by our company has wide capacity coverage, high precision and various communication interfaces. Our system can be applied in high-precision weighing of static loads, dynamic loads, corrosion occasions, explosion-proof occasions and other usage scenarios.



▲ Quality Control



▲ Material Level Monitoring



▲ Weighing

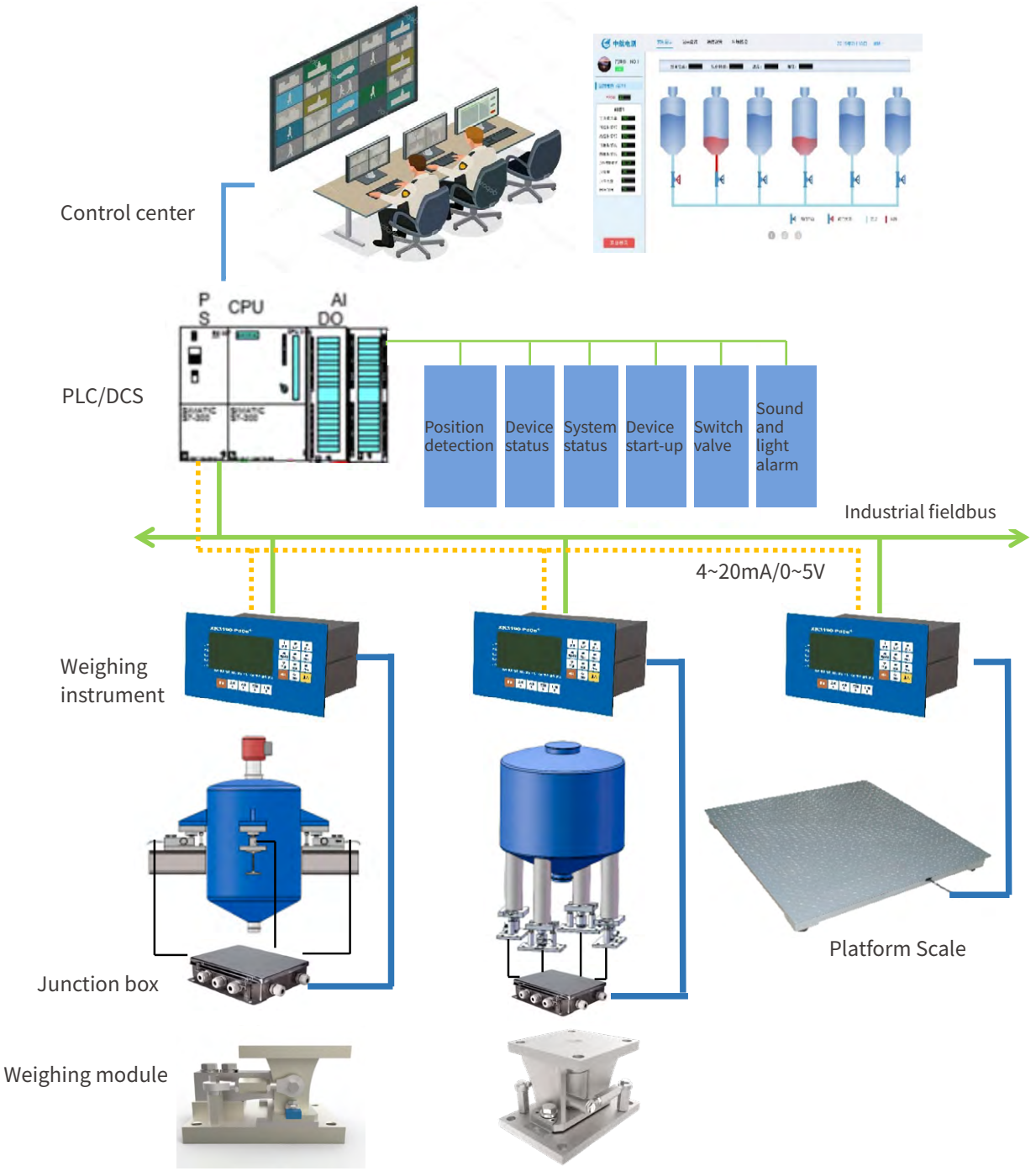


▲ Stock management



▲ Formulation management

WEIGHING SYSTEM COMPOSITION



WEIGHING MODULE

Our company provides a variety of structurally designed weighing modules to optimally transmit gravity to the load cell to ensure the accuracy and stability of the weighing system. At the same time, the weighing module is easy to install on site, anti-overturning, anti-turning, and can meet the requirements of various industrial weighing applications.

Selection of weighing modules

Capacity

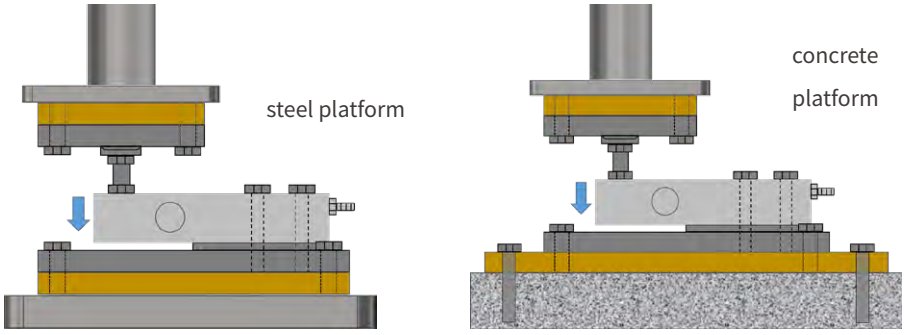
It is usually determined according to the weight of the container (A), the total weight of the material in the container (B), the number of lugs in the container (N) and the safety factor.

1. Static load: weighing module capacity ≥ (A+B)×(1.3~1.5)÷N
2. Dynamic load and partial load: weighing module range ≥ (A+B)×(1.5~2.0)÷N

Use environment

1. For corrosive environments, choose ZS series weighing modules .
2. For explosion-proof occasions, choose intrinsic safe explosion-proof weighingmodules .

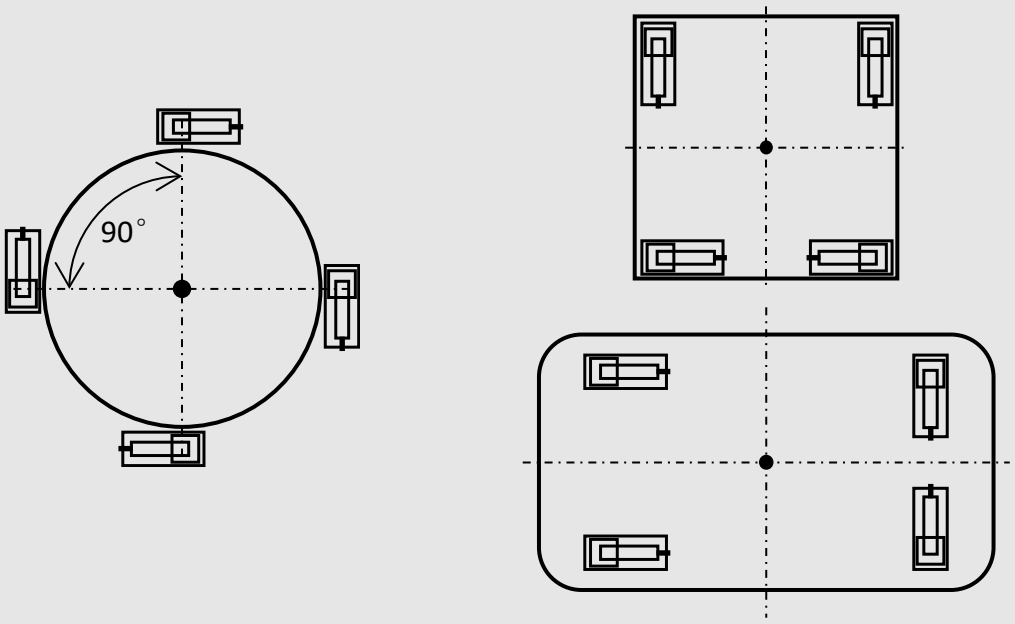
Installation of weighing modules



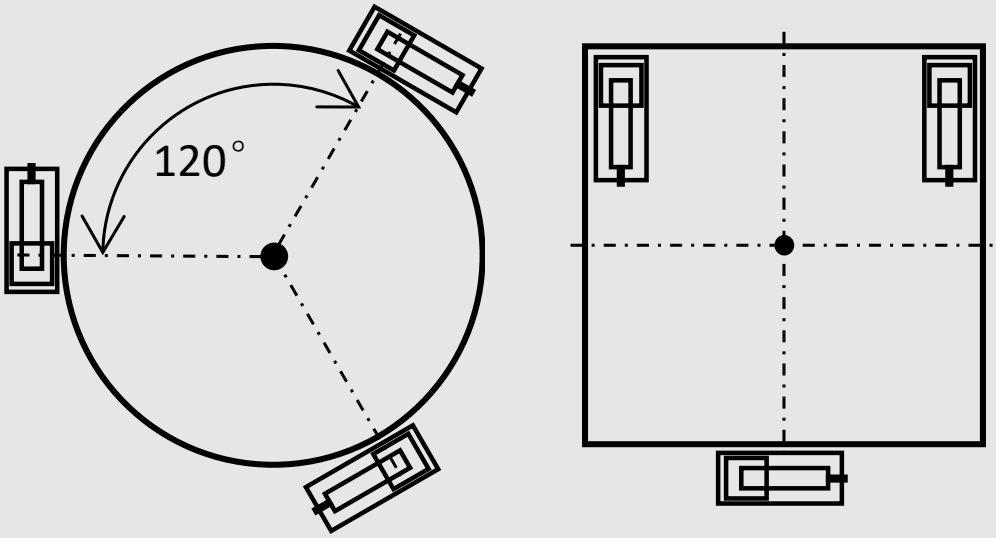
- Weld the transition plate at the bottom of the lug or foot of the container.
- The top plate of the weighing module is fastened to the upper transition plate, and the bottom plate is fastened to the lower transition plate.
- Fix the lower transition plate on the foundation platform. For Steel platforms， Fixture can be done by welding, For concrete without embedded parts, fixture can be done by expansion bolts.

Distribution of weighing modules

Four Points



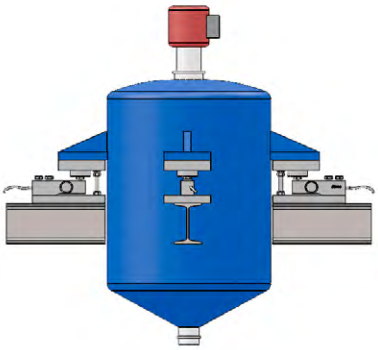
Three Points

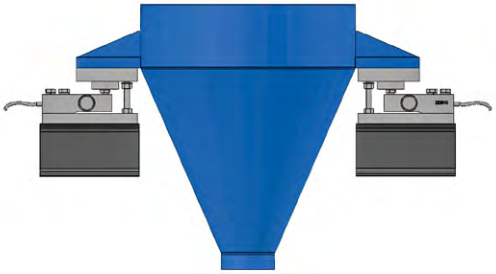


INSTALLATION NOTES

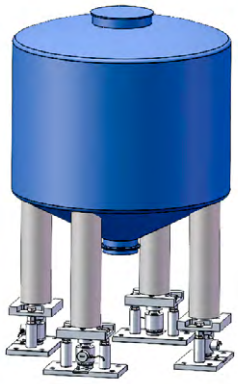
Typical installation method of weighing module

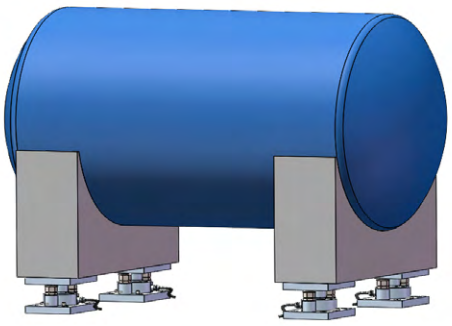
Waist Mount





Bottom Mount





Installation basis and container design requirements

① The plane of the installation foundation should be perpendicular to the force-bearing surface, and the angle deviation should be ⩽ 1° .
② The levelness of the same reference plane should be controlled within 3mm.
③ The bearing capacity of the installation foundation should be at least 1.5 times the measuring range of the weighing system.
④ Firm and stable foundational, no deformation, without large vibration or air flow;
⑤ The connection between the container and the weighing module should be vertical to the force-bearing surface, and the angle deviation should be ⩽ 1° ;
⑥ For the container bottom installation, ensure that the support of the container is firm and free of deformation;
⑦ The connection between the container and all pipes shall be connected by horizontal flexible pipes.
⑧ For containers with horizontal limit rods, it shall be confirmed that the limit rods do not support the container;
⑨ The design of the lugs and feet of the container shall be 30% larger than the size of the upper transition plate, to facilitate later maintenance;
⑩ Special containers need an additional hook device for hanging weights at the bottom or side;
⑪ Large tonnage weighing system needs to install a special anti-overturning device on the container.

Weighing Module Installation Requirements

① Check whether the capacity of the sensor matches the load capacity to avoid overloading;
② All weighing modules should bear the load evenly, with a deviation of ⩽ 20%. If there is an out-of-tolerance, the height of the weighing module can be adjusted through gaskets
③ The top plate of the module， The bottom plate and the container can be connected by bolts or by welding. If welding is used; the current should not pass through the sensor during welding;
④ For weighing modules with anti-overturning rods, it is necessary to confirm that the rods do not interfere with the top plate of the module;
⑤ Sensor cables It should be connected to the junction box through an anti-smashing tube;
⑥ The mechanical connection(pipeline, cable box elbow) between the object to be weighed and the surrounding structure must be as flexible as possible, and the entire load must be supported by the weighing module.

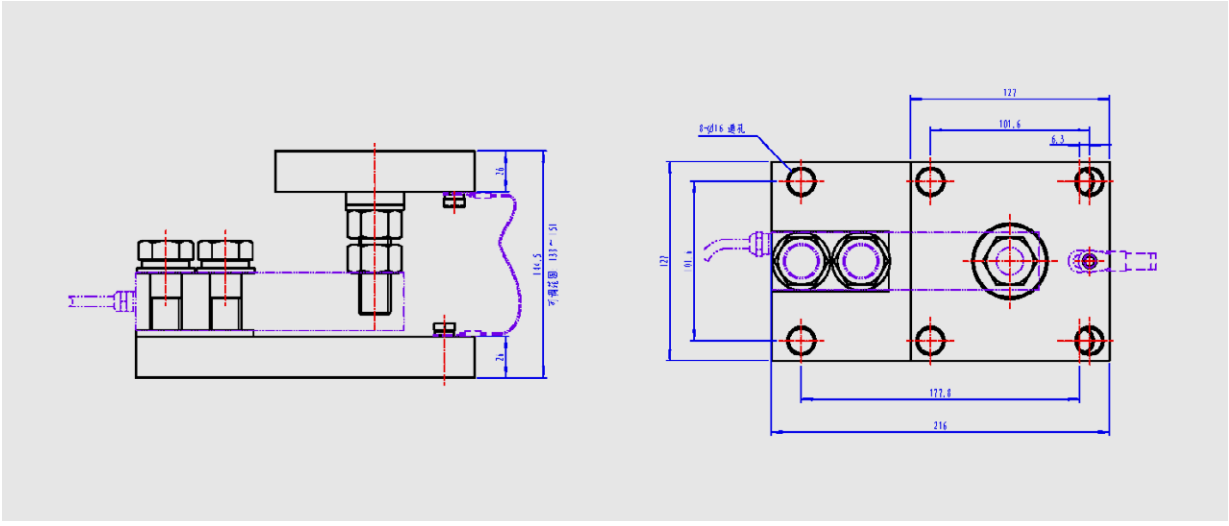
Calibration of the weighing system

① Calibration of weights: high precision (±0.1%~±0.05%) place standard weights on the material tank for calibration. The weight of the weight is at least 10% of the full scale. Increasing the weight of the weight can improve the accuracy of the weighing system.
② Calibration of substitutes: with medium accuracy (± 0.2%~ ± 0.1%), after weighing the substitutes on another scale, move them into the tank as the standard weight for calibration.
③ Digital method calibration: medium precision (± 0.2%~ ± 0.1%) selects digital sensors and instruments with weight-free calibration function, and calibrates through software debugging.
④ Electronic calibration: For lower precision (± 1%~ ± 0.5%), use analog sensors and instruments with weight-free calibration functions, and input the sensitivity of the sensor for calibration

8402
WEIGHING MODULE



- Structural form: single shear beam structure, compressive bearing .
- Protection level: potting seal, IP67, welding seal, IP68 (optional) .
- Scope of application: applicable High precision weighing system for static load occasions .
- Rated load: 0.1/0.2/0.25/0.5/1/1.5/2/2.5/3/5/7.5/10T
- Explosion-proof grade: (optional) Ex ia IIC T6 Ga, Ex iaD 20 T80.
- Digital signal: (optional) supports RS232/485/422/CAN communication.
- Height adjustable, easy to install, anti-turnover.



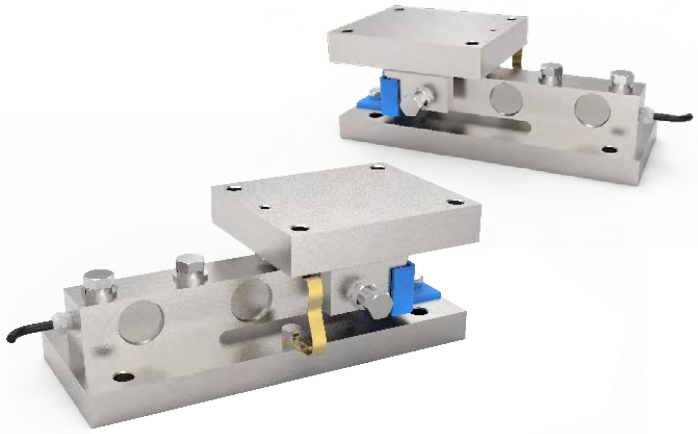
Installation size

Range \ Dimensions(mm)	H	H1	H2	L	L1	L2	L3	W	W1	ΦD
0.1t-2t	101-120	18	18	180.9	152.4	127	101.6	127	101.6	16
2.5t-5t	138-151	26	26	216	177.8	127	101.6	127	101.6	16
7.5t-10t	195-220	38	38	285.8	235	177.8	127	177.8	127	21

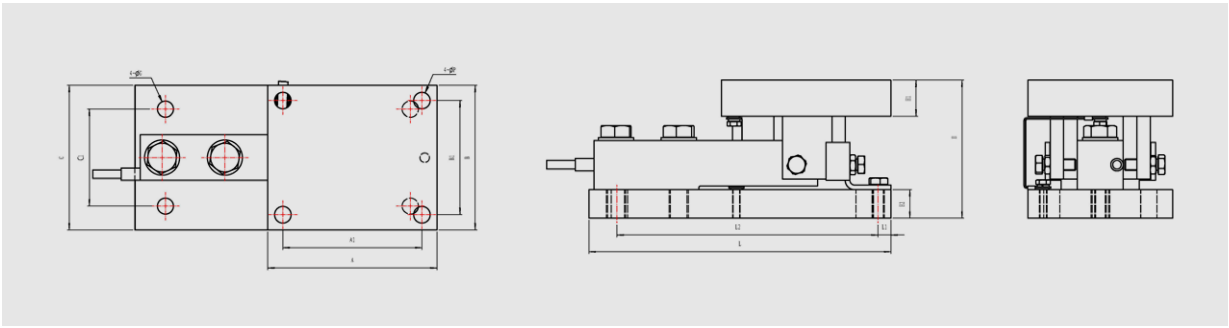
- Wiring instructions: red: input (+), black: input (-), green: output (+), white: output (-), transparent: shielding
- Cable diameter:Φ5.0±0.2mm

Technical indicators			
Accuracy		OIML R60 C3	OIML R60 C4
Maximum Verification Division	nmax	3000	4000
Minimum Verification Division	Vmin	Emax/10000	Emax/14000
Value, Comprehensive Error	(%FS)	±0.020	±0.018
Creep	(%FS/30min)	±0.016	±0.012
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011	±0.009
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015	±0.010
Output Sensitivity	(mV/V)	2.0±0.002/3.0±0.008	
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)	
Input Impedance	(Ω)	350±3.5	
Output Impedance	(Ω)	350±3.5	
Zero Output	(%FS)	⩽ ±1.0	
Temperature Compensation Range	(°C)	-10 ～ +40	
Allowable Operating Temperature Range	(°C)	-40 ～ +70	
Recommended Excitation Voltage	(V)	5 ～ 12(DC)	
Maximum Excitation Voltage	(V)	18(DC)	
Safe Overload Range	(%FS)	150	
Ultimate Overload Range	(%FS)	300	

8426
WEIGHING MODULE



- Product material: 8426 alloy steel surface nickel-plated 8426 stainless steel .
- Structural form: single shear beam structure, compressive load.
- Protection level: welded seal.
- Scope of application: suitable for dynamic load weighing system.
- Rated load: 1/2 /2.5/3/5/7.5/10/15/20/25T
- Explosion-proof grade: (optional) Ex ia IIC T6 Ga, Ex iaD 20 T80
- Digital signal: (optional) support RS232/485/422/CAN Communication .
- Anti-turning, anti-lightning, horizontal limit.



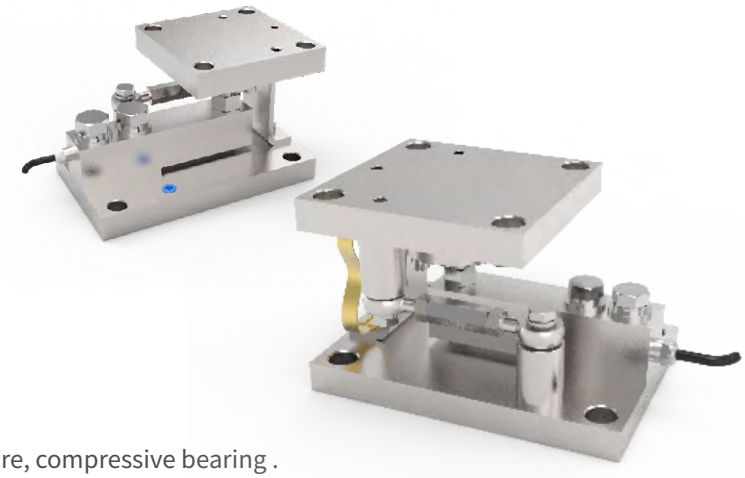
Installation size

Dimensions(mm) / Range	L	L1	A	A1	B	B1	C	C1	H	H1	H2	P	G
1t-3t	286	226	150	124	128	102	112	80	107	28	23	11	13
5t -7.5t	317.5	257	178	146	152	120	152	102	144	38	28	17	17
10t-15t	360	295	184	152	154	122	154	106	209.5	43	44	22	21
20t-25t	400	349	220	170	220	170	220	170	252	53	55	26	26

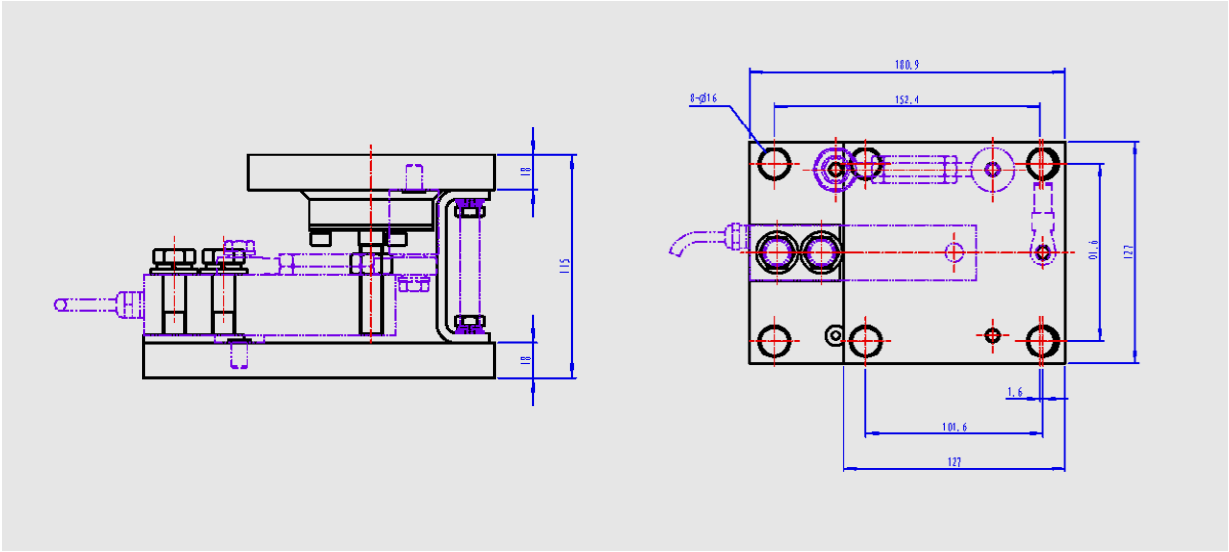
- Wiring instructions: red: input (+), yellow: input (-), blue: output (+), white: output (-), Transparent: Shielding, Brown: Feedback (+), Black:Feedback (-)
- Cable diameter:Φ6.2±0.2mm

Technical indicators		
Accuracy		OIML R60 C3
Maximum Verification Division	nmax	3000
Minimum Verification Division	Vmin	Emax/10000
Value, Comprehensive Error	(%FS)	⩽ ±0.020
Creep	(%FS/30min)	⩽ ±0.016
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	⩽ ± 0.011
Effect Of Temperature On Zero Point Output	(%FS/10°C)	⩽ ±0.015
Output Sensitivity	(mV/V)	2.0±0.02
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)
Input Impedance	(Ω)	400±10
Output Impedance	(Ω)	351±2
Zero Output	(%FS)	⩽ ±1.0
Temperature Compensation Range	(°C)	-10 ～ +40
Allowable Operating Temperature Range	(°C)	-40 ～ +70
Recommended Excitation Voltage	(V)	5 ～ 12(DC)
Maximum Excitation Voltage	(V)	18(DC)
Safe Overload Range	(%FS)	200
Ultimate Overload Range	(%FS)	300

8601
WEIGHING MODULE



- Structural form: single shear beam structure, compressive bearing .
- Protection level: glue potting seal, IP67, welding seal, IP68 (optional).
- Scope of application: suitable for static and dynamic High precision weighing system.
- Rated load: 0.1/0.2/0.25/0.5/1/1.5/2/2.5/3/5/7.5/10T
- Explosion-proof grade: (optional) Ex ia IIC T6 Ga, Ex iaD 20 T80
- Digital signal: (optional) support RS232/485/422/CAN communication.
- Horizontal limit, vertical limit, steel ball floating design.



Installation size

Dimensions(mm) / Range	H	H1	H2	L	L1	L2	L3	W	W1	ΦD
0.1t-2t	115	18	18	180.9	127	101.6	152.4	127	101.6	16
2.5t-5t	135	23	23	216	127	101.6	177.8	127	101.6	16
7.5t-10t	195	33	33	285.8	177.8	127	235	177.8	127	22

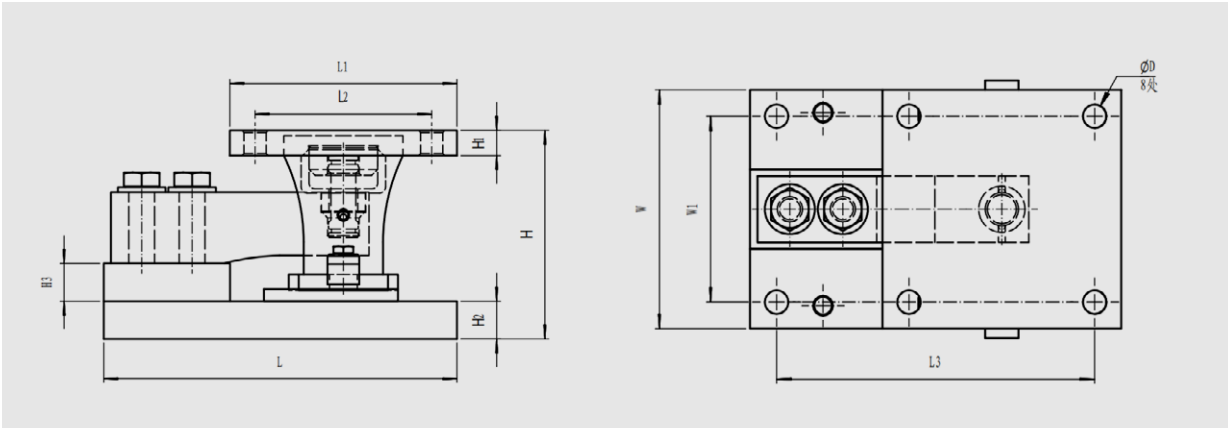
- Wiring instructions: red: input (+), black: input (-), green: output (+), white: output (-), transparent: shielding.
- Cable diameter:Φ5.0±0.2mm

Technical indicators			
Accuracy		OIML R60 C3	OIML R60 C5
Maximum Verification Division	nmax	3000	5000
Minimum Verification Division	Vmin	Emax/10000	Emax/18000
Value, Comprehensive Error	(%FS)	±0.020	±0.010
Creep	(%FS/30min)	±0.016	±0.010
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011	±0.008
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015	±0.007
Output Sensitivity	(mV/V)	2.0±0.002/3.0±0.008	
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)	
Input Impedance	(Ω)	350±3.5	
Output Impedance	(Ω)	350±3.5	
Zero Output	(%FS)	⩽ ±1.0	
Temperature Compensation Range	(°C)	-10 ～ +40	
Allowable Operating Temperature Range	(°C)	-40 ～ +70	
Recommended Excitation Voltage	(V)	5 ～ 12(DC)	
Maximum Excitation Voltage	(V)	18(DC)	
Safe Overload Range	(%FS)	150	
Ultimate Overload Range	(%FS)	300	

8602
WEIGHING MODULE



- Product material: 8602 alloy steel surface nickel-plated 8602 stainless steel.
- Structural form: single shear beam structure,compressive bearing.
- Protection level: welding seal, IP68.
- Scope of application: suitable for dynamic and static load highprecision weighing system.
- Rated load: 0.25/0.5/1/1.5/2/2.5/3/5t
- Explosion-proof grade: (optional) Ex ia IIC T6 Ga, Ex iaD 20 T80.
- Digital signal: (optional) support RS232/485/422/ CAN communication.
- Integrated design, easy to install, anti-overturning, anti-turning, anti-lightning.



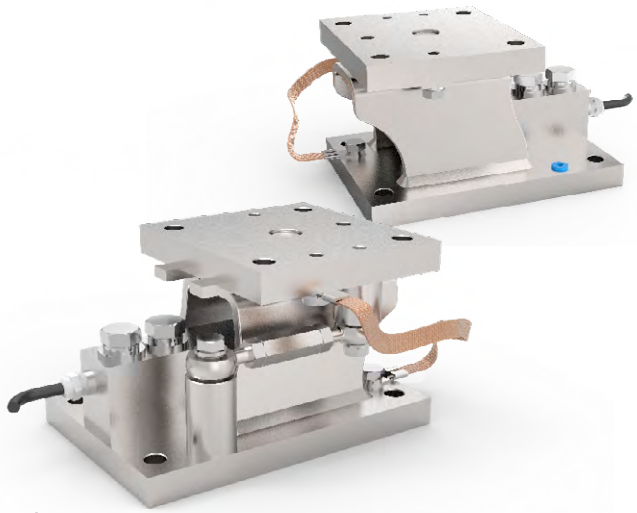
Installation size

Dimensions(mm) / Range	H	H1	H2	L	L1	L2	L3	W	W1	ΦD
0.25-2t	105	13	18	177.4	114	89	152.4	130	89	11
2.5-5t	136	19	24	235	152.4	101.6	184.2	155	101.6	17.5

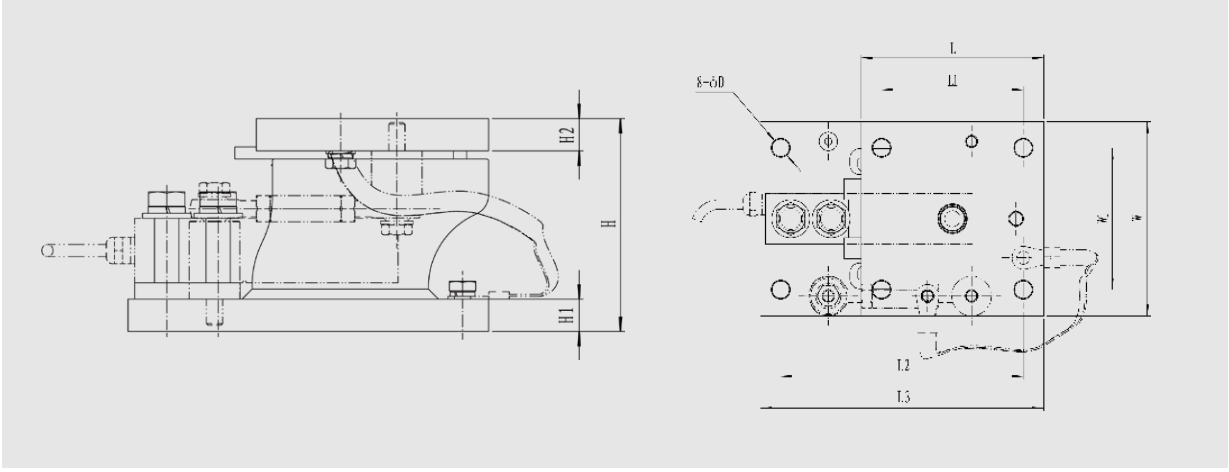
- Wiring instructions: red: input (+), black: input (-), green: output (+), white: Output (-), transparent: shielding .
- Cable diameter: 5.0±0.2mm

Technical indicators				
Accuracy		OIML R60 C3	OIML R60 C4	OIML R60 C5
Maximum Verification Division	nmax	3000	4000	5000
Minimum Verification Division	Vmin	Emax/10000	Emax/14000	Emax/18000
Value, Comprehensive Error	(%FS)	±0.020	±0.018	±0.010
Creep	(%FS/30min)	±0.016	±0.012	±0.010
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011	±0.009	±0.008
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015	±0.010	±0.007
Output Sensitivity	(mV/V)	2.0±0.002		
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)		
Input Impedance	(Ω)	1000±10		
Output Impedance	(Ω)	1000±10		
Zero Output	(%FS)	⩽ ±1.0		
Temperature Compensation Range	(°C)	-10 ～ +40		
Allowable Operating Temperature Range	(°C)	-40 ～ +70		
Recommended Excitation Voltage	(V)	5 ～ 12(DC)		
Maximum Excitation Voltage	(V)	18(DC)		
Safe Overload Range	(%FS)	150		
Ultimate Overload Range	(%FS)	300		

8801
WEIGHING MODULE



- Anti-overturning, anti-overload.
- 360° Horizontal limit protection.
- Optional for 2 horizontal/vertical stabilizing rods.
- Scope of application: Suitable for dynamic, static, corrosive and explosive environment .
- Structure parts with stainless and alloy steel.
- Self-resetting, accurate and reliable measurement.
- IP67 and IP68
- Explosion-proof grade:(Optional) Ex ia IIC T6 Ga,Ex iaD 20 T80 .
- Lightning protection to 10,000v.



Installation size

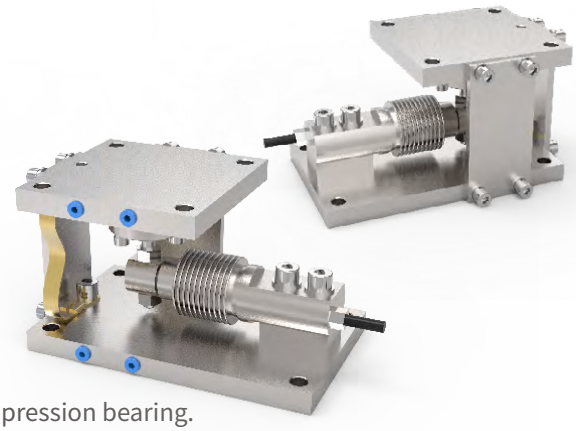
Capacity	L	L1	L2	L3	W	W1	H	H1	H2	ΦD
0.1-2t	114.6	89	152.4	178	122	89	105	16	16	11
2.5-5t	152.4	101.6	184.2	235	152.4	101.6	137	23	23	17.5
7.5-10t	200	155	255	300	200	155	195	33	33	22

- Wiring instructions: red: input (+), black: input (-), green: output (+), white: Output (-), transparent: shielding.
- Cable diameter: Φ5.0±0.2mm.

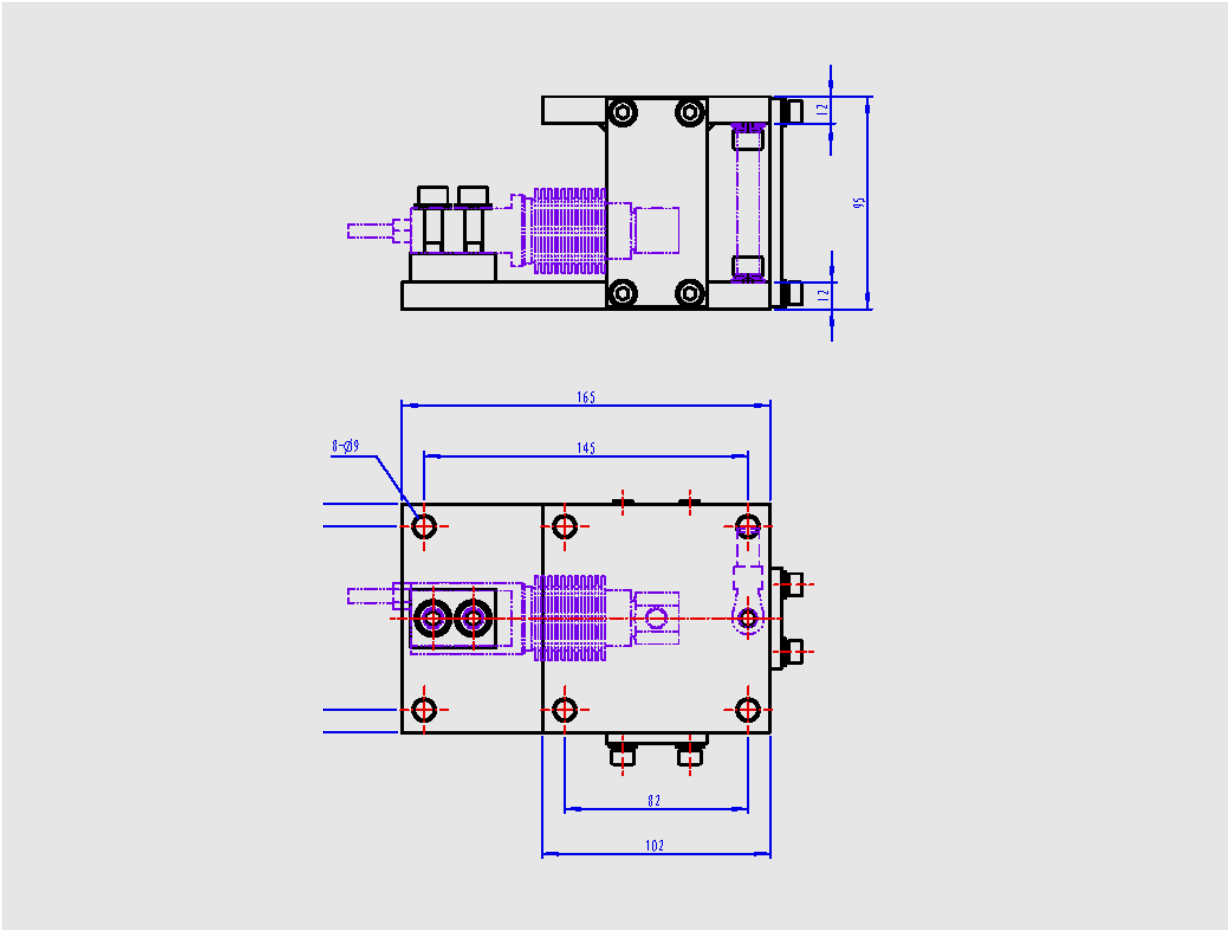
Weighing Module Technical parameters							
Material		Alloy steel	Stainless steel	Alloy steel	Stainless steel	Alloy steel	Stainless steel
Rated capacity	t	0.1/0.2/0.25/0.3/0.5 /0.75/1/1.5/2	0.1/0.15/0.2/0.25 /0.5/1/1.5/2	2.5/3/5		7.5/10	
Max horizontal displacement	mm	±3					
Safety overload	%	150					

Load cell technical parameters			
Accuracy		OIML R60 C3	OIML R60 C5
Maximum Verification Division	nmax	3000	5000
Minimum Verification Division	Vmin	Emax/10000	Emax/18000
Value, Comprehensive Error	(%FS)	±0.020	±0.010
Creep	(%FS/30min)	±0.016	±0.010
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011	±0.008
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015	±0.007
Output Sensitivity	(mV/V)	2.0±0.002/3.0±0.008	
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)	
Input Impedance	(Ω)	350±3.5	
Output Impedance	(Ω)	350±3.5	
Zero Output	(%FS)	⩽ ±1.0	
Temperature Compensation Range	(°C)	-10 ～ +40	
Allowable Operating Temperature Range	(°C)	-40 ～ +70	
Recommended Excitation Voltage	(V)	5 ～ 12(DC)	
Maximum Excitation Voltage	(V)	18(DC)	
Safe Overload Range	(%FS)	150	
Ultimate Overload Range	(%FS)	300	

11601
WEIGHING MODULE



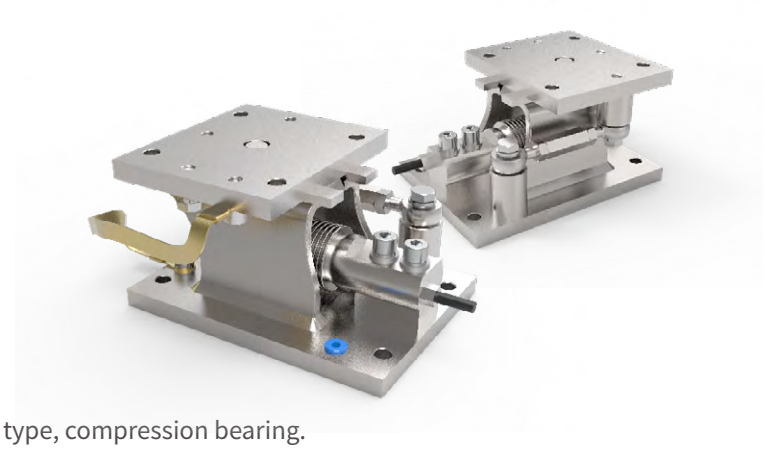
- Structure : cantilever beam corrugated pipe type, compression bearing.
- Protection level : welding sealing, IP68.
- Scope of application : little-range weighing system, dynamic load weighing system.
- Rate load : 5/10/20/30/50/75/100/150/200/250kg.
- Explosion-proof grade : (optional) Ex ia IICT6 Ga，Ex iaD 20 T80.
- Digital signal : (optional) support RS232/485/422/CAN communication.
- Anti-turning, anti-overload ,anti-lighting, self-resetting, wire protection.



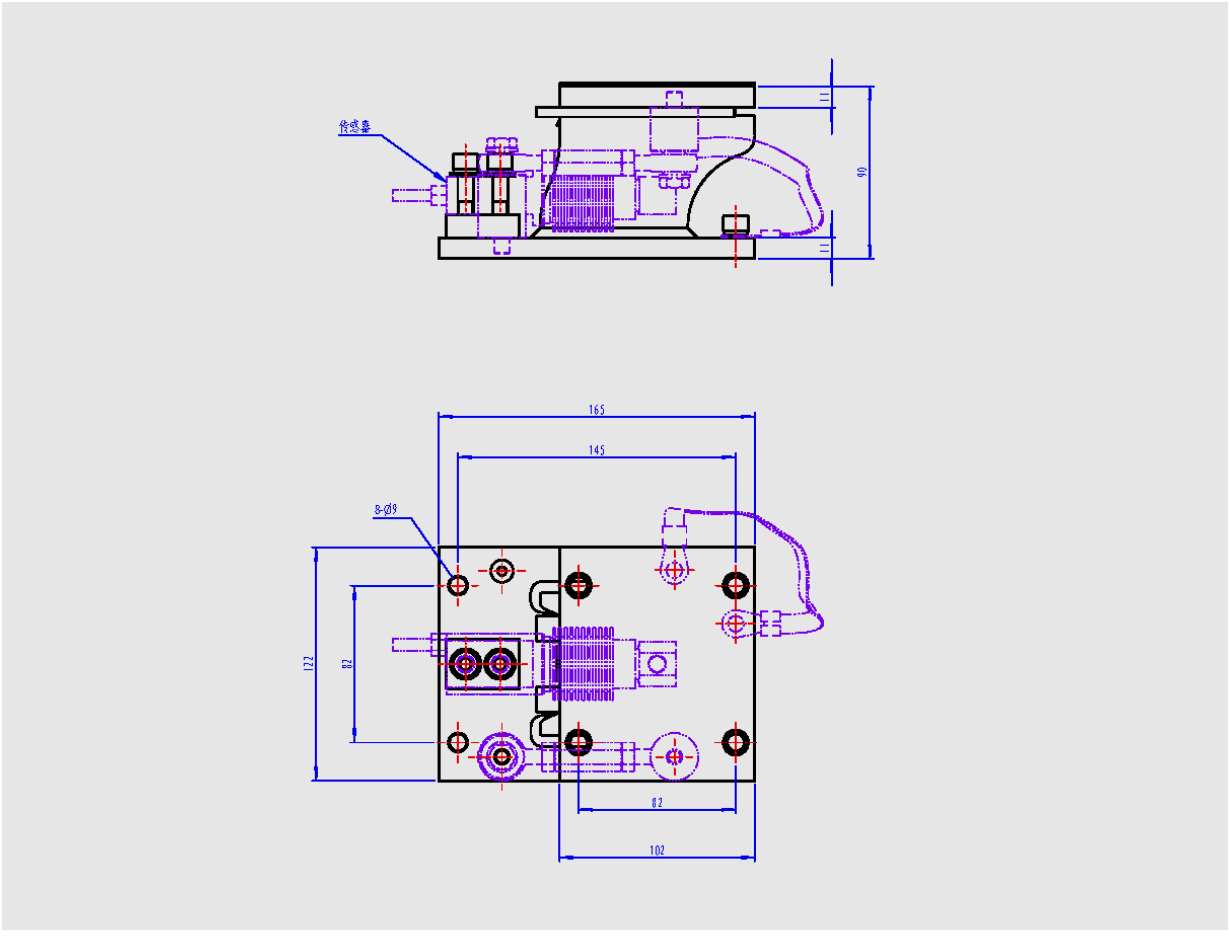
- Wiring instructions : green : input(+); black : input(-); white : output(+); red : output(-); transparent : shielding , yellow : feedback(+); blue : feedback(-).
- Cable diameter : Φ5.0±0.2mm

Technical indicators			
Accuracy		OIML R60 C3	OIML R60 C5
Maximum Verification Division	nmax	3000	5000
Minimum Verification Division	Vmin	Emax/10000	Emax/18000
Value, Comprehensive Error	(%FS)	±0.020	±0.010
Creep	(%FS/30min)	±0.016	±0.010
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011	±0.008
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015	±0.007
Output Sensitivity	(mV/V)	2.0±0.02	
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)	
Input Impedance	(Ω)	460±50	
Output Impedance	(Ω)	350±3.5	
Zero Output	(%FS)	⩽ ±1.0	
Temperature Compensation Range	(°C)	-10 ～ +40	
Allowable Operating Temperature Range	(°C)	-40 ～ +70	
Recommended Excitation Voltage	(V)	5 ～ 12(DC)	
Maximum Excitation Voltage	(V)	18(DC)	
Safe Overload Range	(%FS)	150	
Ultimate Overload Range	(%FS)	300	

11801
WEIGHING MODULE



- Structure : cantilever beam corrugated pipe type, compression bearing.
- Protection level : welding sealing,IP68.
- Scope of application : little-range weighing system, dynamic load weighing system.
- Rate load : 5/10/20/30/50/75/100/150/200/250kg
- Explosion-proof grade : (optional) Ex ia IICT6 Ga，Ex iaD 20 T80.
- Digital signal : (optional) support RS232/485/422/CAN communication.
- Anti-turning, anti-overload ,anti-lighting, self-resetting, wire protection.



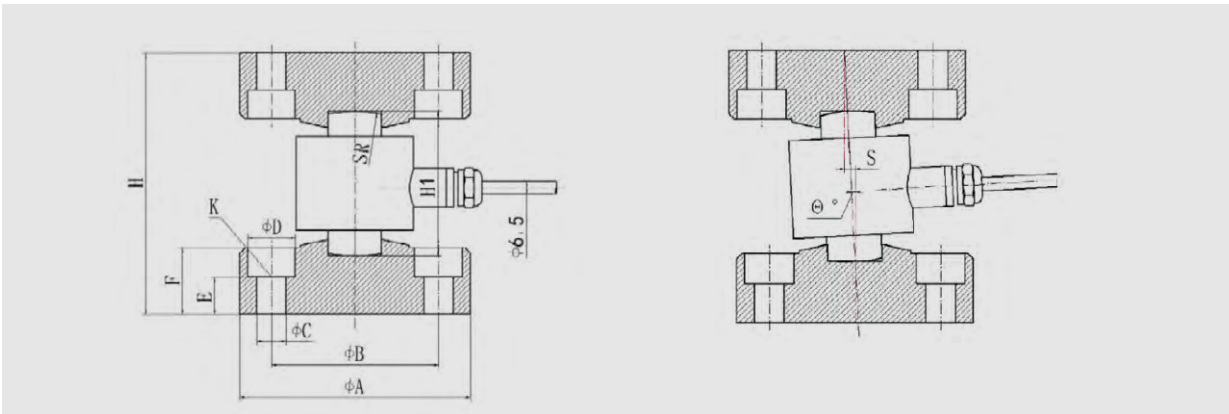
- Wiring instructions : green : input(+); black : input(-); white : output(+); red : output(-); transparent : shielding; yellow : feedback(+); blue : feedback(-).
- Cable diameter : Φ5.0±0.2mm

Technical indicators			
Accuracy		OIML R60 C3	OIML R60 C5
Maximum Verification Division	nmax	3000	5000
Minimum Verification Division	Vmin	Emax/10000	Emax/18000
Value, Comprehensive Error	(%FS)	±0.020	±0.010
Creep	(%FS/30min)	±0.016	±0.010
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011	±0.008
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015	±0.007
Output Sensitivity	(mV/V)	2.0±0.02	
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)	
Input Impedance	(Ω)	460±50	
Output Impedance	(Ω)	350±3.5	
Zero Output	(%FS)	⩽ ±1.0	
Temperature Compensation Range	(°C)	-10 ～ +40	
Allowable Operating Temperature Range	(°C)	-40 ～ +70	
Recommended Excitation Voltage	(V)	5 ～ 12(DC)	
Maximum Excitation Voltage	(V)	18(DC)	
Safe Overload Range	(%FS)	150	
Ultimate Overload Range	(%FS)	300	

14147
WEIGHING MODULE



- Product material: alloy steel surface coated with anti-corrosion paint.
- Structure: double shear beam structure, compressive bearing.
- Protection level: IP66
- Scope of application: use with large-range and high-temperature weighing systems.
- Rated load: 2.8/6/13 /28/60/130/280/350/500T
- Explosion-proof grade: (optional) Ex ia IIC T6 Ga, Ex iaD 20 T80.
- Digital signal: (optional) supports RS232/485/422/CAN communication.
- High temperature resistance : (Optional) 150° C /250° C.
- Self-resetting, anti-turnover.



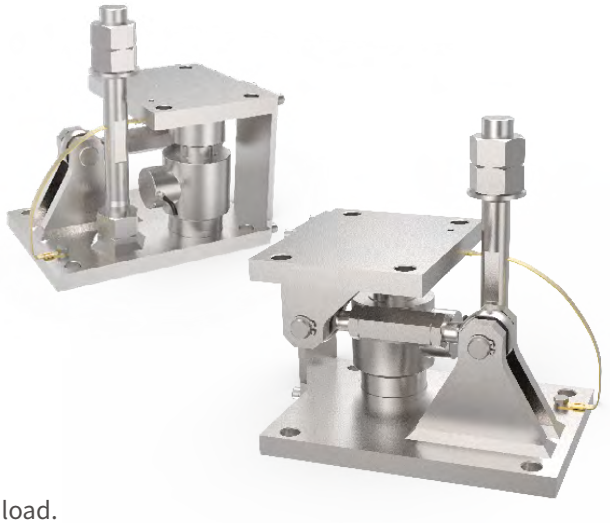
Installation size

Dimensions(mm) / Range	A	B	C	D	E	F	H	H1	SR	Φmax	Smax
2.8/6t	87	63	11	18	14	25	100	56	50	5°	2
13t	97	73	11	18	21	32	120	68	66	5°	2.5
28t	108	84	11	-	-	28	136	74	72	5°	2.5
60t	137	112	11	-	-	42	174	90	100	5°	3
130t	176	148	11	-	-	52	220	116	125	3°	4
280t	226	190	14	-	-	65	300	170	188	3°	6
350t	240	200	26	-	-	30	390	240	325	3°	6
500t	280	240	26	-	-	45	490	275	450	3°	6

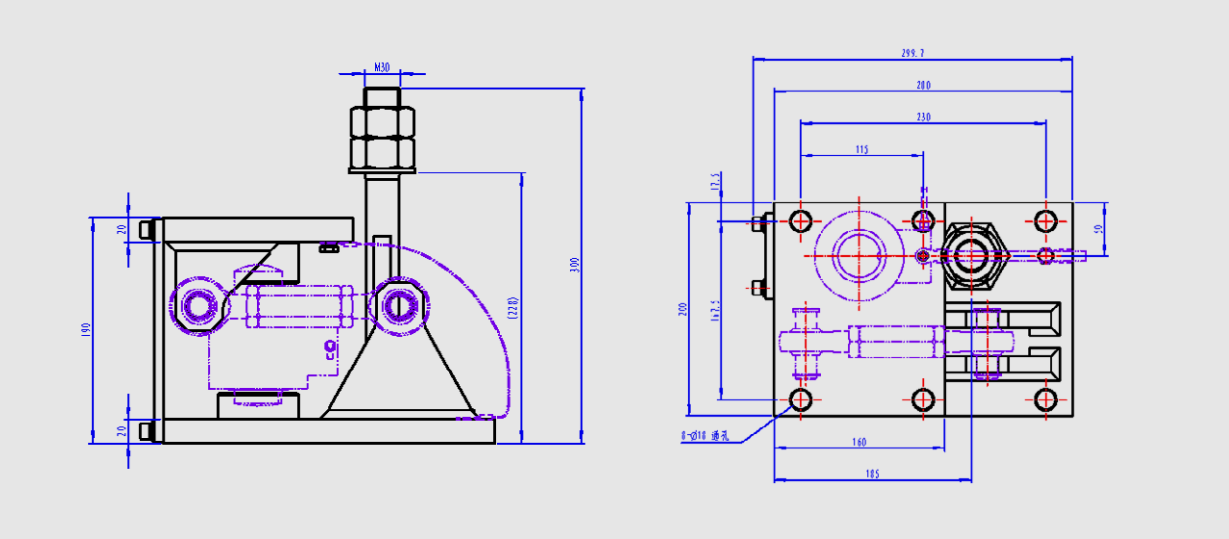
- Note: If the maximum allowable deflection is exceeded (θmax) or the maximum allowable level To move (Smax), it is necessary to increase the horizontal limit and vertical limit mechanism of the tank.
- Wiring instructions: red: input (+), white: input (-), black: output (+), blue: output (-), transparent: shielding

Technical indicators		
Accuracy		G1
Maximum Verification Division	nmax	1000
Minimum Verification Division	Vmin	Emax/5000
Value, Comprehensive Error	(%FS)	⩽ ±0.1
Creep	(%FS/30min)	⩽ ±0.06
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	⩽ ± 0.5
Effect Of Temperature On Zero Point Output	(%FS/10°C)	⩽ ±0.1
Output Sensitivity	(mV/V)	1.5±0.1
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)
Input Impedance	(Ω)	275±5、840±30
Output Impedance	(Ω)	245±2、703±5
Zero Output	(%FS)	⩽ ±1.5
Temperature Compensation Range	(°C)	-10 ～ +40
Allowable Operating Temperature Range	(°C)	-40 ～ +70
Recommended Excitation Voltage	(V)	5 ～ 12(DC)
Maximum Excitation Voltage	(V)	18(DC)
Safe Overload Range	(%FS)	150
Ultimate Overload Range	(%FS)	200

14401
WEIGHING MODULE



- Structural form: column structure, compressive load.
- Protection level: welding seal, IP68.
- Scope of application: suitable for high-precision weighing systems with large dynamic and static loads.
- Rated load: 1/2/3/5/10/20/25/30/40/50t
- Explosion-proof grade: (optional) Ex ia IIC T6 Ga, Ex iaD 20 T80.
- Digital signal: (optional) support RS232/485/422/CAN communication.
- Horizontal limit, vertical limit, anti-overturning, anti-turning.

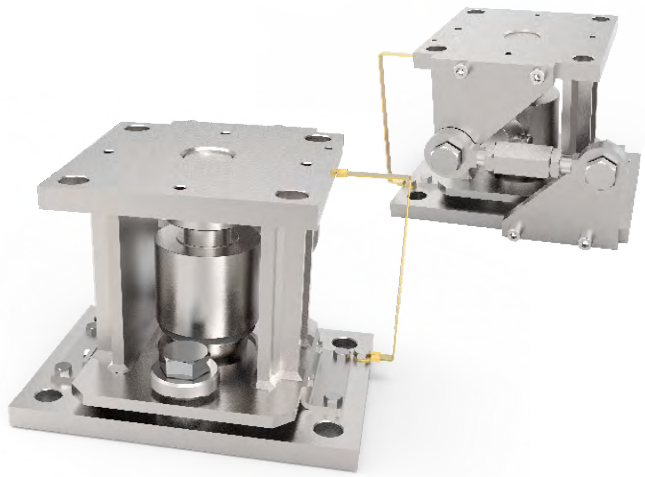


Wire instructions:

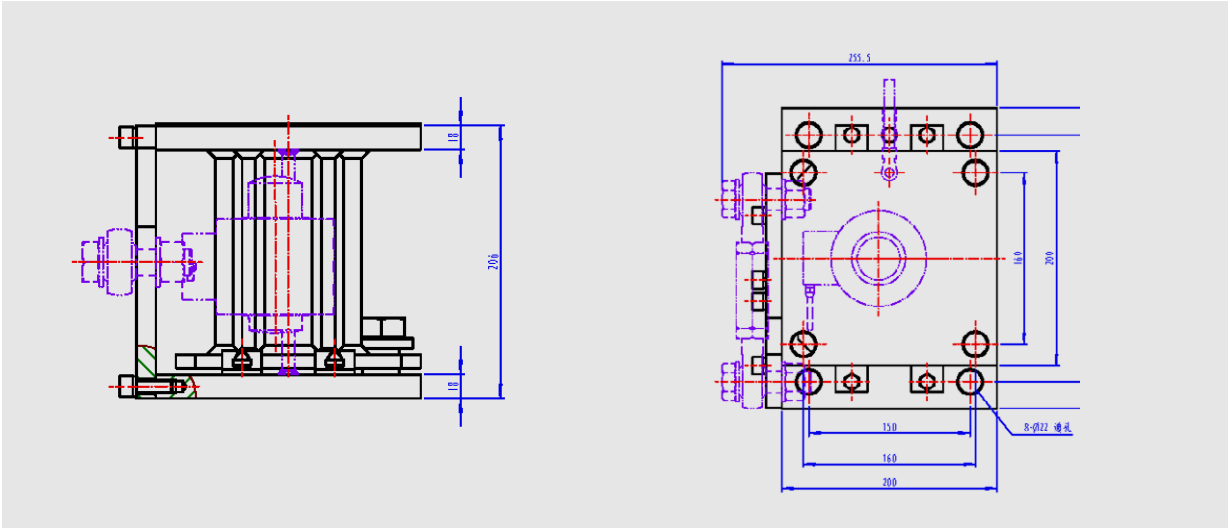
- 4 wire:red: input (+), black: input (-), brown: output (+), white: output (-), Transparent: Shielding.
- 6 wire:red: input (+), yellow: input (-), blue: output (+), white: output (-), Transparent: Shielding, brown: feedback(+), black: feedback(-).
- Cable diameter:Φ6.2±0.2mm

Technical indicators		
Accuracy		OIML R60 C3
Maximum Verification Division	nmax	3000
Minimum Verification Division	Vmin	Emax/10000
Value, Comprehensive Error	(%FS)	⩽ ±0.020
Creep	(%FS/30min)	⩽ ±0.016
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	⩽ ± 0.011
Effect Of Temperature On Zero Point Output	(%FS/10°C)	⩽ ±0.015
Output Sensitivity	(mV/V)	2.0±0.002
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)
Input Impedance	(Ω)	700±7
Output Impedance	(Ω)	703±4
Lightning Protection	(V)	⩾ 10000
Zero Output	(%FS)	⩽ ±1.0
Temperature Compensation Range	(°C)	-10 ～ +40
Allowable Operating Temperature Range	(°C)	-40 ～ +70
Recommended Excitation Voltage	(V)	5 ～ 12(DC)
Maximum Excitation Voltage	(V)	18(DC)
Safe Overload Range	(%FS)	150
Ultimate Overload Range	(%FS)	300

14605
WEIGHING MODULE



- Structural form: column structure, compression bearing • Protection level: welding seal, IP68 .
- Scope of application: suitable for high-precision weighing systems with large dynamic and static load ranges.
- Rated load : 1/2/3/5/10/20/25/30/40/50t
- Explosion-proof grade: (optional) Ex ia IIC T6 Ga, Ex iaD 20 T80.
- Digital signal: (optional) support RS232/485/422/CAN communication.
- Horizontal limit, vertical limit, anti-overturning, anti-turning.



Installation size			
Range	H	H1	H2
1-30t	206	18	18
40-50t	218	24	24

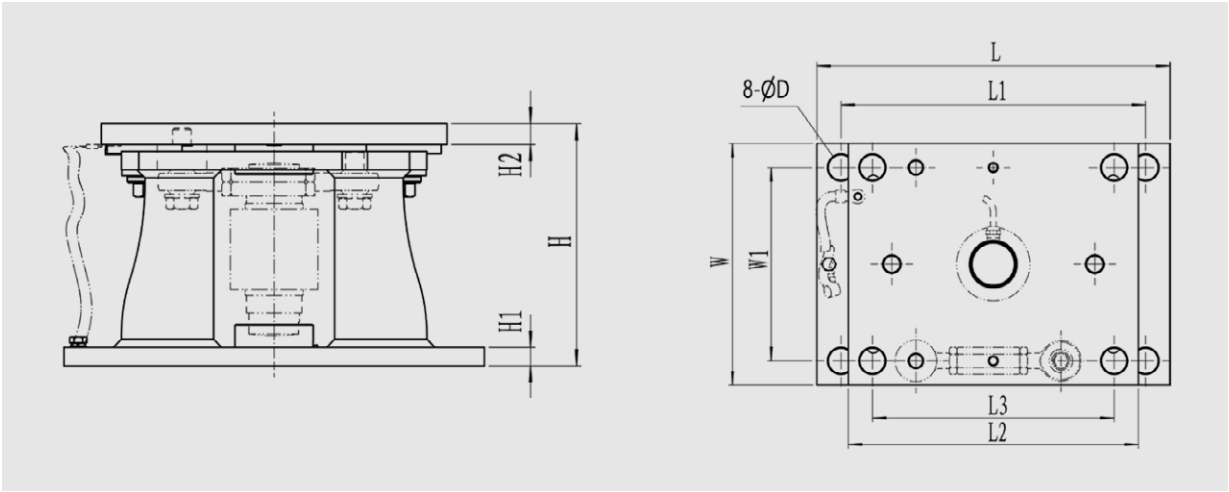
- Four-wire system: red: input (+), black: input (-), green: output (+), white: output (-), transparent: shielding
- Six-wire system: red: input (+), yellow: Input (-), Blue: Output (+), White: Output (-), Transparent: Shielding Brown: Feedback (+), Black: Feedback (-) .
- Cable diameter:Φ6.2±0.2mm

Technical indicators		
Accuracy		OIML R60 C3
Maximum Verification Division	nmax	3000
Minimum Verification Division	Vmin	Emax/10000
Value, Comprehensive Error	(%FS)	±0.020
Creep	(%FS/30min)	±0.016
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015
Output Sensitivity	(mV/V)	2.0±0.002
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)
Input Impedance	(Ω)	700±7
Output Impedance	(Ω)	703±4
Zero Output	(%FS)	⩽ ±1.0
Temperature Compensation Range	(°C)	-10 ～ +40
Allowable Operating Temperature Range	(°C)	-40 ～ +70
Recommended Excitation Voltage	(V)	5 ～ 12(DC)
Maximum Excitation Voltage	(V)	18(DC)
Safe Overload Range	(%FS)	150
Ultimate Overload Range	(%FS)	300

14608
WEIGHING MODULE



- Sensor structure: Disc type, compression load.
- Protection level: Hermatically sealed IP68.
- Scope of application: Suitable for dynamic weighing system.
- Rated capacity：0.25/0.5/1/2/3.5/5/10/13/28/60t .
- Explosion-proof grade:(Optional) Ex ia IICT6 Ga,Ex iaD 20 T80.
- Digital signal:(Optional) RS232/485/422/CAN communication.
- Anti-overturning, anti-overload.
- Lightning Protection, Self-resetting, Cable protection.



Installation size

Dimensions(mm) / Range	L	L1	L2	L3	W	W1	H	H1	H2	ΦD
10-25t	365	315	300	250	250	200	210	16	18	26
30-50t	380	315	365	315	270	200	230	26	24	26
75-100t	450	375	440	375	300	235	280	28	33	33

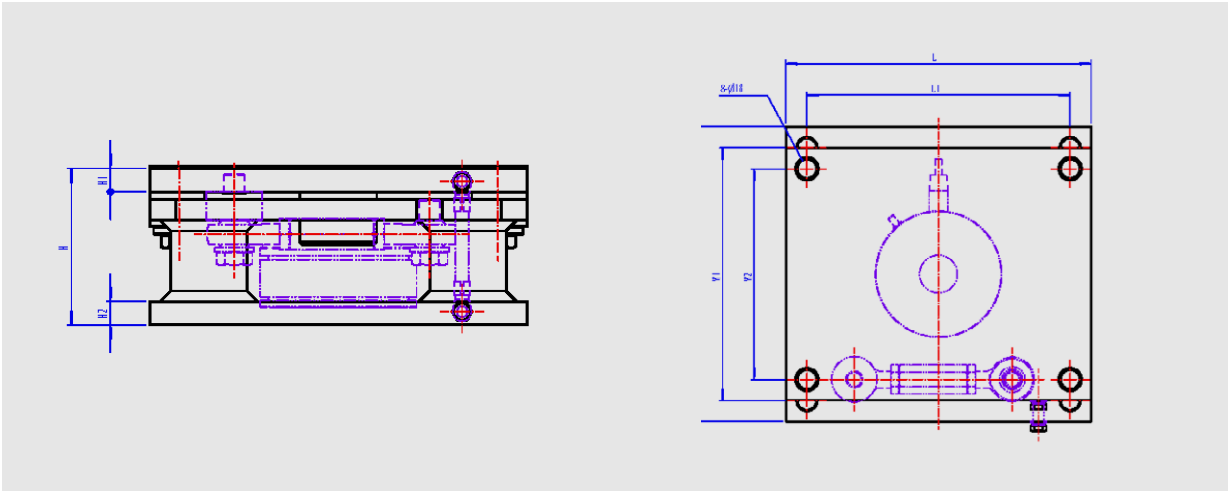
- Wiring instructions:red: input(+); black: input(-); green: output(+); white: output(-); transparent : shielding.
- Cable diameter : Φ5.0±0.2mm

Technical indicators		
Accuracy		OIML R60 C3
Maximum Verification Division	nmax	3000
Minimum Verification Division	Vmin	Emax/10000
Value, Comprehensive Error	(%FS)	±0.020
Creep	(%FS/30min)	±0.016
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015
Output Sensitivity	(mV/V)	2.0±0.002
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)
Input Impedance	(Ω)	700±7
Output Impedance	(Ω)	703±4
Zero Output	(%FS)	⩽ ±1.0
Temperature Compensation Range	(°C)	-10 ～ +40
Allowable Operating Temperature Range	(°C)	-40 ～ +70
Recommended Excitation Voltage	(V)	5 ～ 12(DC)
Maximum Excitation Voltage	(V)	18(DC)
Safe Overload Range	(%FS)	150
Ultimate Overload Range	(%FS)	300

24801
WEIGHING MODULE



- Sensor structure: Disc type, compression load .
- Protection level: Hermatically sealed IP68 .
- Scope of application: Suitable for dynamic weighing system .
- Rated capacity：0.25/0.5/1/2/3.5/5/10/13/28/60t .
- Explosion-proof grade:(Optional) Ex ia IICT6 Ga,Ex iaD 20 T80 .
- Digital signal:(Optional) RS232/485/422/CAN communication .
- Anti-overturning, anti-overload.
- Lightning Protection, Self-resetting, Cable protection.



Installation size

Dimensions(mm) / Range	L	L1	W	W1	W2	H	H1	H2	ΦD
0.25-5t	210	180	200	170	140	80	10	10	12
10-13t	230	200	200	170	140	100	12	12	14
28t	290	250	280	240	200	120	18	18	18
60t	360	320	330	290	250	150	23	23	22

- Wiring instructions:pink: input(+); black: input(-); brown: output(+); white: output(-); transparent: shielding
- Cable diameter : Φ6.2±0.1mm

Technical indicators			
Accuracy		OIML R60 C3	OIML R60 C5
Maximum Verification Division	nmax	3000	5000
Minimum Verification Division	Vmin	Emax/10000	Emax/16000
Value, Comprehensive Error	(%FS)	±0.020	±0.0140
Creep	(%FS/30min)	±0.016	±0.0147
Effect Of Temperature On Output Sensitivity	(%FS/10°C)	±0.011	±0.0070
Effect Of Temperature On Zero Point Output	(%FS/10°C)	±0.015	±0.0088
Output Sensitivity	(mV/V)	2.0±0.1	
Insulation Resistance	(MΩ)	⩾ 5000(50VDC)	
Input Impedance	(Ω)	1200±100	
Output Impedance	(Ω)	1000±0.5	
Zero Output	(%FS)	1.0	
Temperature Compensation Range	(°C)	-10 ～ +40	
Allowable Operating Temperature Range	(°C)	-35 ～ +70	
Recommended Excitation Voltage	(V)	5 ～ 12(DC)	
Maximum Excitation Voltage	(V)	18(DC)	
Safe Overload Range	(%FS)	150	
Ultimate Overload Range	(%FS)	300	

JUNCTION BOX

The purpose of the junction box : to combine the signals of multiple sensors on the same weighing platform (tank)

JXH series junction box



- Material: 304 stainless steel
- Dimensions: 225×178×52mm
- Installation dimensions:4-Φ8/160×158mm
- Protection level: IP65
- Angle difference adjustment range: ±2%
- Explosion-proof level: (optional) Ex ia IIC T4

Model	Features
JXH-4C JXH-6C JXH-8C	4 ports, non-explosion-proof 6 ports, non-explosion-proof 8 ports, non-explosion-proof
Exi-JXH-4CS Exi-JXH-6CS Exi-JXH-6CS	4 ports, Intrinsic safety 6 ports, Intrinsic safety 8 ports, Intrinsic safety

JB series junction box

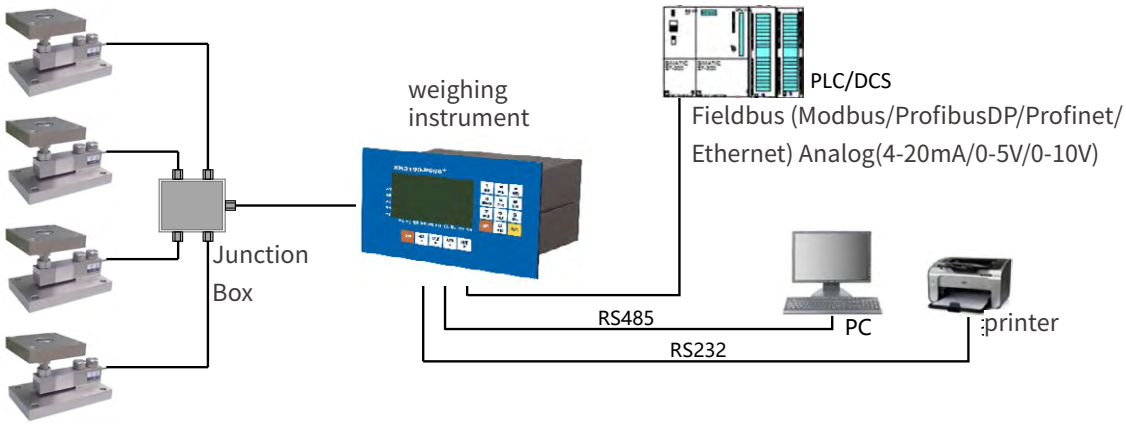


- Material: cast aluminum spray protection grade: IP65
- Angle difference adjustment range: ±2%

Model	Features
JB02-4	4 ports, size， Dimensions: 135×65×38mm
JB06-6 JB06-8	6 ports, size， Dimensions：250×80×57mm 8 ports, size， Dimensions：250×80×57mm

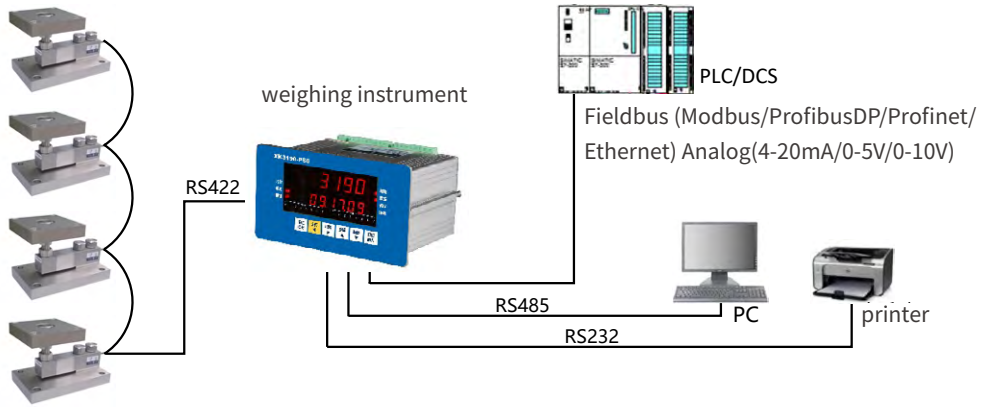
WEIGHING INSTRUMENT

Weighing system composition (non-explosion-proof)



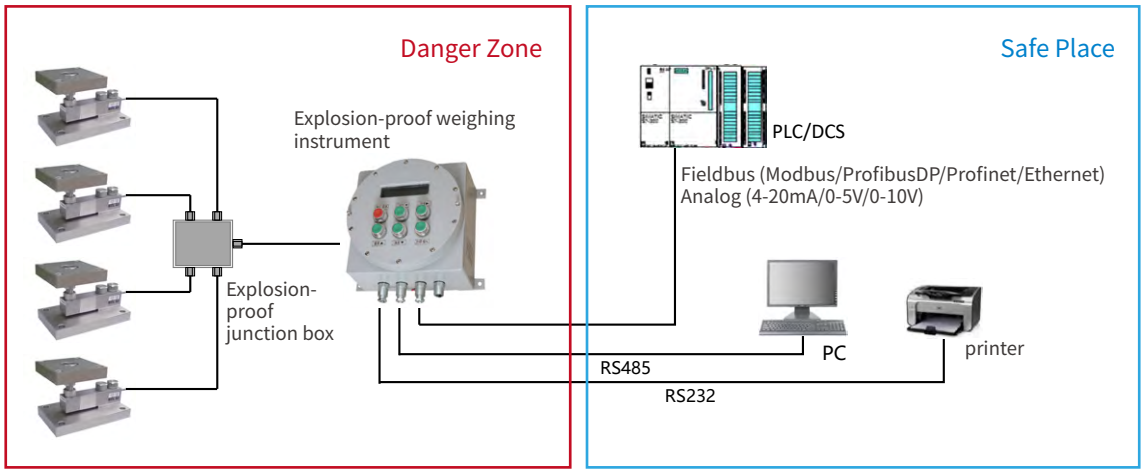
- Connections up to 8 analog weighing modules.
- The weighing accuracy up to 1/3000.
- Multiple communication interfaces and communication protocols.
- Flexible installation with options such as panel type, wall type, and guide rail type and other type.
- Free calibration

Composition of digital weighing system (non-explosion-proof)



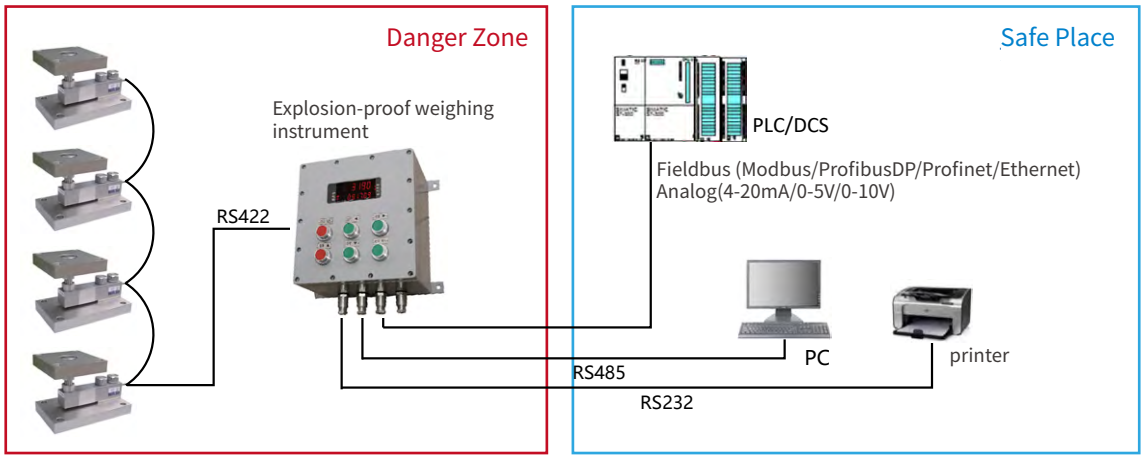
- Connections up to 8 digital weighing modules.
- The weighing accuracy can reach up to 1/3000 various communication interfaces and communication protocols.
- Flexible installation with options such as panel type, wall type, and guide rail type and other installation methods.
- Calibration Fre
- Equipped with weighing module status monitoring function and fault diagnosis function.

Weighing system composition (explosion-proof)



- Connections up to 8 analog explosion-proof weighing modules.
- The highest explosion-proof certification level of the intrinsically safe: Ex ib IIC T4.
- The highest explosion-proof certification level of the explosion isolation: Exd[iaIIC Ga] IIC T6.
- The weighing accuracy up to 1/3000.
- Multiple communication interfaces and communication protocols.
- Support 24VDC/ 220VAC power supply; calibration function.

Composition of digital weighing system (explosion-proof)



- Connections up to 8 digital explosion-proof weighing modules.
- The highest explosion-proof certification level of the explosion isolation: Exd[iaIIC Ga] IIB T6.
- The weighing accuracy can reach up to 1/ 3.
- Multiple communication interfaces and communication protocols.
- Supports 24VDC/220VAC power supply.
- Calibration Free
- Equipped with weighing module status monitoring function and fault diagnosis function.

ZH-8010
WEIGHING INSTRUMENT



ZH-8010 is a weighing display controller with high precision, high speed and high stability. It can expand a variety of industrial Ethernet interfaces and industrial bus interfaces, and is suitable for various high-precision, high-speed weighing and batching on-site and dynamic weighing equipment with multiple nodes and centralized installation.

- OLED bright display, friendly Human-machine interface.
- The A/D conversion rate is 300Hz, which can meet the application of dynamic weighing equipment.
- Rich interfaces, supporting multiple industrial Ethernet and industrial bus communication protocols.
- Support weight-free calibration.
- Optional explosion-proof instrument box.

Technical indicators	
Shell, Size, Weight	◎ Size 129*62*132110×60×95mm; hole size 93×46mm; weight: about 0.6kg
Powered By	◎ DC 12~30 VDC
Environment	◎ Working environment: 0~40°C , 90% RH relative humidity, non-condensing; ◎ Storage and transportation environment: -20 ~50°C ; RH relative humidity ⩽ 90%, non-condensing.
Input Type	◎ 1~8 analog load cells; signal range: -15mV ～ +15mV； ◎ Sensor bridge power supply: DC: 5V, 150； ◎ Six-wire
Precision	◎ Accuracy grade: Class III ◎ Maximum verification division: 6000 ◎ Input sensitivity：1μV/e ◎ A/D conversion rate：⩽ 300Hz
Display	◎ OLED bright display ◎ Maximum display division number 250,000 ◎ Display division value：1/2/5/10/20/50 ◎ Decimal place: 0~33
Operation	◎ 5 touch buttons
Communication	◎ Serial port: 1×RS232C,1×RS485,1×RJ45 ◎ Baud rate: 600 ～ 57600bps optional ◎ Protocol: ModBus-RTU、ModBus-TCP/IP ◎ Expandable: dual RJ45 interface ProfiNet、 dual RJ45 interface EtherNet、ProfiBus DP ◎ Can be connected to a large-screen display through a serial port.
I/O	◎ (Optional) 4 inputs and 8 outputs

ZH-8020
WEIGHING INSTRUMENT



ZH-8020 weighing instrument can realize the conversion, display and transmission of 4 weight signals at the same time. It is suitable for various high-speed, high-precision, multi-node weighing control sites.

- Can be connected to 1~4 weight signals.
- Small size, easy for centralized installation.
- The A/D conversion rate is 400Hz, which can meet the application of dynamic weighing equipment.
- Rich interfaces, supporting multiple industrial Ethernet and industrial bus communication protocols.
- Support weight-free calibration
- Optional touch screen/LED screen

Technical Indicators	
Housing, Dimensions, Weight	◎ Size: 123 × 95 × 40mm; 35mm rail installation; weight: 0.6kg
Powered By	◎ DC 12 ~ 30VDC
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing; ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 90% , non-condensing
Input Type	◎ Can be connected to 4 weighing signals, each with 1~4 analog load cells; signal range: -5mV ~+15mV; ◎ Sensor bridge power supply: DC: 5V, 150mA; six-wire wiring
Precision	◎ Accuracy grade: Class III ◎ Maximum number of verification intervals: 3000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 400Hz
Display	◎ Single-line 6-digit LED digital tube display ◎ The maximum display scale is 300000 ◎ Display scale value: 1/2/5 ◎ Decimal places: 0~3
Operation	◎ 4 touch buttons
Communication	◎ Serial port: 2, RS232C, RS485 ◎ Baud rate: 600~57600bps optional ◎ Protocol: ModBus-RTU ◎ Extensible dual RJ45 interface industrial Ethernet (ModBus TCP/IP, Pro iNet, EtherNet)

ZH-8030
WEIGHING INSTRUMENT



ZH-8030 weighing display controller adopts high-performance CPU and ADC devices, can expand various bus interfaces, and can accurately realize the conversion, display and transmission of weight signals. It is suitable for various high-speed, high-precision, multi-node weighing control sites.

- OLED bright display, friendly man-machine interface.
- 17control buttons, easy to operation and easy to set.
- The A/D conversion rate is 300Hz, which can meet the application of dynamic weighing equipment.
- Excellent EMC and RFI performance, strong antiinterference ability,
- Rich interfaces, supporting multiple industrial Ethernet and industrial bus communication protocols.
- Support weight-free calibration.
- Optional stainless steel dustproof shell.
- Optional explosion-proof instrument box.

Technical indicators	
Shell, Size,Weight	◎ Size: 196 x 102 x 125mm; hole size 163 x 81mm; weight: 1.1kg
Powered By	◎ DC DC 12 ~ 30V DC
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing ◎ Storage and transportation environment: -20 ~50°C , RH relative humidity ⩽ 90% , non-condensing.
Input Type	◎ 1~8 analog load cells ◎ Signal range:-15mV~+15mV ◎ Power to load cells:DC 5V,150mA ◎ Six-wire ◎ 1~10 digital load cells,RS485
Precision	◎ Accuracy grade: Class III ◎ Maximum number of verification intervals 6000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 300Hz
Display	◎ OLED highlight dot matrix display, display area 64 x33mm ◎ Maximum display division number 250,000 ◎ Display division value: 1/2/5/10/20/50 ◎ Decimal place: 0~3
Operation	◎ 17 touch buttons
Communication	◎ Analog output: 1, 4~20mA/0~5V/0-10V ◎ Serial port: 1×RS232C, 1×RS485 ◎ Baud rate: 600 ～ 57600bps optional ◎ Protocol: ModBus-RTU ◎ Expandable: ProfiBus DP, dual RJ45(ModBus-TCP/IP, ProfiNet, EtherNet). ◎ Can be connected to a large screen display through a serial port.
I/O	◎ (optional) 4 inputs and 8 output

ZH-6010
WEIGHING INSTRUMENT



ZH-6010 weighing display controller adopts high-performance CPU, which can be connected with 1~10 digital sensors, and can accurately realize the conversion, display and transmission of weight signals. It is suitable for various high-speed and high-precision weighing control sites.



Dustproof enclosure type



Flameproof

- Automatic addressing of sensors, the instrument can check the signal of each sensor to realize rapid fault diagnosis.
- Supporting weight-free calibration.
- Two-line large-screen data display, 6 control buttons, easy to operation and easy to set.
- Panel-type and dust-proof enclosures are optional, suitable for various installation scenarios.
- Storage, inspection, deletion, printing and other processing of weighing data records can be carried out on the instrument side, and data protection when power off.
- It has 8 input and 8 output magnetic coupling isolation digital interfaces, which can store 5 recipes and realize rapid control of multiple I/O devices on site.
- Optional explosion-proof instrument box.

technical indicators	
Housing, Dimensions, Weight	◎ ZH-6010 stainless steel panel type; size 180×124×106.7mm; opening size 152×77mm; weight: 0.8kg ◎ ZH-6010-S stainless steel dustproof shell; IP65; size 245×109×188mm; weight: approx. 2kg
Powered By	◎ AC 110 ～ 230VAC，50/60 Hz
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 90% , non-condensing
Input Type	◎ 1~10 digital load cells, RS485 interface：DC：5V、200mA
Precision	◎ Accuracy grade: Class III ◎ Maximum number of verification intervals: 3000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 200Hz
Display	◎ Main display 6-digit LED digital tube , Character height 0.56" ◎ Auxiliary display 6-digit LED, character height 0.4" ◎ 23 status indicators ◎ Display division value: 1/2/5/10/20/50 ◎ Decimal place: 0~3
Operation	◎ 6 touch buttons
Communication	◎ Analog output: 1, 4~20mA/0~5V/0~10V ◎ Serial port: 1 RS232C, 1 RS232C/RS422/RS485 ◎ Baud rate: 600-57600bps optional ◎ Protocol: Modbus-RTU ◎ Printer interface: serial printer can be connected ◎ Large screen display interface: serial output mode, 20mA current loop signal
I/O	◎ 8 inputs and 8 outputs, expandable to 40 inputs and 40 outputs
data storage	◎ 8064 pieces of weight data or 4032 sets of time + weight data

ZH-5010
WEIGHING INSTRUMENT



ZH5010 weighing display controller adopts high-performance CPU and ADC devices, which can accurately realize the conversion, display and transmission of weight signals. It is suitable for various high-speed and high-precision weighing control sites.



Dustproof enclosure type



Flameproof

- Two-line large-screen data display, 6 control buttons, easy to operation and easy to set.
- Optional panel housing, dust-proof housing, explosion-proof instrument box, suitable for various installation scenarios.
- Storage, inspection, deletion, printing and other processing of weighing data records can be carried out on the instrument side, and the power-off data.
- With 8 input and 8 output magnetic coupling isolation switch interface, it can store 5 recipes, realizing multiple on-site Fast control of an I/O device.
- Supporting weight-free calibration.
- Optional explosion-proof instrument box.

Technical Indicators	
Housing, Dimensions, Weight	◎ ZH-5010 stainless steel panel type; size 180×124×106.7mm; hole size 152×77mm; weight: 0.8kg ◎ ZH-5010-S stainless steel dustproof shell; IP65; size 245×109×188mm; weight: approx. 2kg
Powered By	◎ AC 110~220v, 50/60Hz
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 90% , non-condensing
Input Type	◎ 11~8 analog load cells; signal range: -15mV ~ +15mV ◎ Sensor bridge power supply: DC: 5V, 200mA; six-wire wiring
Precision	◎ Accuracy grade: Class III ◎ Maximum number of verification intervals: 3000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 200Hz
Display	◎ Main display 6-digit LED digital tube , Character height 0.56" ◎ Auxiliary display 6-digit LED, character height 0.4" ◎ 23 status indicators ◎ Display division value: 1/2/5/10/20/50 ◎ Decimal place: 0~3
Operation	◎ 6 touch buttons
Communication	◎ Analog output: 1, 4~20mA/0~5V/0~10V ◎ Serial port: 1×RS232C,1×RS232C/RS422/RS485 ◎ Baud rate: 600-57600bps optional ◎ Protocol: Modbus-RTU ◎ Printer interface: serial printer can be connected ◎ Large screen display interface: serial output mode, 20mA current loop signal.
I/O	◎ 8 inputs and 8 outputs, expandable to 40 inputs and 40 outputs.
Data Storage	◎ 8064 pieces of weight data or 4032 sets of time + weight data

ZH-5020
WEIGHING INSTRUMENT



ZH-5020 weighing display controller adopts high-performance CPU and ADC devices, can expand various bus interfaces, and can accurately realize the conversion, display and transmission of weight signals. It is suitable for various high-speed, high-precision, multi-node weighing control sites.



Dustproof enclosure type

- Two-line large-screen data display, 17 control buttons, easy to operation and easy to set.
- Panel-type and dust-proof enclosures are optional, suitable for various installation scenarios.
- Storage, inspection, deletion, U disk copy, printing, etc. of weighing data records can be performed on the instrument side, Electrical data protection.
- With 12 inputs and 12 outputs magnetic coupling isolation switch interface, which can store 5 recipes and realize multiple I/O on site O Fast control of the device.
- Rich interfaces: 3 independent asynchronous serial communication interfaces (2 RS232C, 1 RS422/RS485).
- Optional PROFIBUS DP, ModBus TCP/IP interface to realize high-speed, multi-node fieldbus control.
- Supporting weight-free calibration.

Technical Indicators	
Housing, Dimensions, Weight	◎ ZH-5020 stainless steel panel type; size 180×100×102.5mm; hole size 152×77mm; weight: 0.8kg ◎ ZH-5020-S stainless steel dustproof shell; IP65; size 245×109×188mm; weight: approx 2kg
Powered By	◎ AC 110 ~ 230VAC, 50/60 Hz
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 90% , non-condensing
Input Type	◎ 1~8 analog load cells; signal range: -15mV ~+15mV ◎ Sensor bridge power supply: DC: 5V, 200mA; six-wire wiring
Precision	◎ Accuracy grade: Class III ◎ Maximum number of verification intervals: 3000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 200Hz
Display	◎ Main display 6-digit LED digital tube , Character height 0.56" ◎ Auxiliary display 6-digit LED, character height 0.4" ◎ 15 status indicators ◎ Display division value: 1/2/5/10/20/50 ◎ Decimal place: 0~3
Operation	◎ 17 touch buttons
Communication	◎ Analog output: 1, 4~20mA/0~5V/0~10V ◎ Serial port: 1 RS232C, 1 RS422/RS485 ◎ Baud rate: 600-57600bps optional ◎ Protocol: Modbus-RTU, expandable ProfiBus DP, ModBus-TCP/IP ◎ USB interface: 1, available of U disk ◎ Printer interface: can be connected to a serial printer.
I/O	◎ 12 inputs and 12 outputs, expandable to 44 inputs and 44 outputs.
data storage	◎ 8000 weight data or 4000 sets of time + weight data

ZH-5040
WEIGHING INSTRUMENT



ZH-5040 weighing display controller adopts high-performance 32-bit ARM processor and high-speed A/D conversion technology, which is suitable for various control occasions requiring high-speed and high-precision weighing.

- The appearance is small and exquisite, which can be densely installed in the control cabinet.
- It can expand multiple types of industrial bus interfaces.
- Supporting weight-free calibration
- High-precision A/D conversion, resolution up to 1/30000, multi-level digital filter mode can be set.
- Storage, inspection, deletion, printing and other processing of weighing data records can be carried out on the instrument side, and data protection when power off.
- Standard 3-input isolated switch, 3-out relay control, integrated adding scale, subtracting scale, sorting scale function.
- Optional explosion-proof instrument box.

technical indicators	
Housing, Dimensions, Weight	◎ Size 102×55×140.1mm; hole size 93×46mm; weight: 0.6kg
Powered By	◎ AC 110 ～ 220VAC
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 90% , non-condensing
Input Type	◎ 1~8 analog load cells; signal range: -15mV ~ +15mV; ◎ sensor bridge power supply: DC: 5V, 200mA; six-wire wiring
Precision	◎ Accuracy class: Class III ◎ Maximum number of verification intervals: 3000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 200Hz
Display	◎ 6-digit LED digital tube, Character height 0.56 inches ◎ 6 status indicator lights ◎ Display division value: 1/2/5/10/20/50 ◎ Decimal places: 0~3
Operation	◎ 6 touch buttons
Communication	◎ Analog output: 1, 4~20mA/0~5V/0~10V ◎ Serial port: 1 RS232/RS485 can be set ◎ Baud rate: 1200 ~ 19200bps optional ◎ Protocol: Modbus-RTU, expandable ◎ ProfiBus DP ◎ Printer interface: serial printer can be connected ◎ Large screen display interface: 20mA current loop signal
I/O	◎ 3 inputs and 3outputs

XK3190-P801
WEIGHING TRANSMITTER



XK3190-P801 weighing transmitter adopts high-performance CPU and ADC devices, which can accurately realize the conversion, display and transmission of weight signals. It is suitable for various high-precision weighing and batching sites and weighing equipment with multiple nodes and centralized installation.

- The appearance is small and exquisite, which can be densely installed in the control cabinet.
- Strong anti-interference performance, can be used in complex environments.
- Scalable multi-type industrial bus interface (Profibus-DP, Modbus-TCP, CC-Link, CAN expansion Module optional).
- Support weight-free calibration.

Technical Indicators	
Housing, Dimensions, Weight	◎ Standard 35mm guide rail installation or screw fixing; instrument size: 77mm×132mm×58mm; shell, size, weight: 0.2kg
powered by	◎ DC 12 ～ 30VDC
environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 90% , non-condensing
input type	◎ 1~4 analog load cells ◎ Signal range: -19mV ~ +19mV ◎ Sensor bridge power supply: DC: 5V, 350mA ◎ Six-wire system
precision	◎ Accuracy level: Class III ◎ Maximum number of verification intervals: 3000 ◎ Display accuracy: 1/30000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 80Hz
Display	◎ Main display 6-digit LED digital tube , Character height 0.3" ◎ 6 status indicators ◎ Display scale: 1/2/5/10/20/50 ◎ Decimal places: 0~3
Operation	◎ 5 touch buttons
communication	◎ Analog output: 1, 4~20mA/0~5V/0~10V ◎ Serial port: 1 RS232C, 1 RS485 ◎ Baud rate: Baud rate: 1200 ~ 19200bps optional ◎ Protocol: Modbus-RTU, Expandable Profibus-DP, Modbus-TCP, CC-Link, CAN ◎ Printer interface: serial port can be connected to a serial printer ◎ Large-screen display interface: serial output mode, 20mA constant current source signal.
I/O	◎ 3 inputs and 3outputs

XK3190-P8/C8G
WEIGHING INSTRUMENT



XK3190-P8 weighing display control instrument adopts MCS51 single-chip microprocessor and high-speed A/D conversion technology, which can accurately realize the conversion, display and transmission of weight signals. Applicable to a variety of high-precision weighing control sites.



C8G

- Panel-type and dust-proof enclosures are optional, suitable for various installation scenarios.
- Storage, inspection, deletion, printing and other processing of weighing data records can be performed on the instrument side.
- Power outage data protection.
- Strong anti-interference ability and high reliability.
- Support weightfree calibration.
- Optional explosion-proof instrument box.

Technical Indicators	
Housing, Dimensions, Weight	◎ P8 panel type; instrument size 180×100×102.5mm; hole size 152×77mm; weight: 0.7kg ◎ P8S stainless steel dustproof shell; IP65 protection level; instrument size: 245×109×188mm; weight: about 2kg ◎ C8G explosion-proof instrument box (cast aluminum surface spray); instrument box Housing, Dimensions, Weight ◎ Standard 35mm guide rail installation or screw fixing; instrument size: 77mm×132mm×58mm; shell, size, weight: 0.2kg powered by environment size: 315×300×190mm; weight: about 10kg.
Powered By	◎Ac AC 110 ~230VAC, 50/60 Hz (standard configuration) ◎ DC DC 12 ~30VDC (optional)
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 90% , non-condensing
Input Type	◎ 1~8 analog load cells ◎ Signal range: -19mV ~ +19mV ◎ Sensor bridge power supply: DC: 5V, 350mA ◎ Six-wire wiring
Precision	◎ Accuracy class: Class III ◎ Maximum verification scale: 3000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 80Hz
Display	◎ 7-bit LED digital tube,Character height 0.5" ◎ 11 status indicator lights ◎ Display division value: 1/2/5/10/20/50/100 ◎ Decimal places: 0~3
Operation	◎ 5 touch buttons/5 explosion-proof jog buttons
Communication	◎ Analog output: 1, 4~20mA/0~5V/0~10V ◎ Serial port: 1 RS232C/RS422/RS485 ◎ Protocol: Modbus-RTU ◎ Baud rate: 600-9600bps optional ◎ Printer interface: available by Serial port to serial printer ◎ Large-screen display interface: serial output mode, 20mA constant current source signal.
I/O	◎ 3 inputs and 3outputs

XK3190-Ex-A8
EXPLOSION-PROOF WEIGHING INSTRUMENT

XK3190-Ex-A8 All stainless steel intrinsically safe explosion-proof instrument is suitable for: static weighing systems such as electronic platform scales, platform scales, floor scales, etc., and can be applied to most explosive gas occasions such as chemical, pharmaceutical, and petroleum



- Explosion-proof grade: Ex ib IIC T3/T4 Gb
- Consumption design, automatic sleep and multi-level power saving mode.
- It can be powered by intrinsically safe explosion-proof lithium battery or intrinsically safe DC power supply.

Technical Indicators	
Housing, dimensions, weight	◎ Stainless steel waterproof shell ◎ Protection grade: IP65 ◎ Weight: 2.2kg
Powered by	◎ AC 220VAC / 50~60Hz intrinsically safe power supply (standard configuration) ◎ 9.6V / 3AH lithium battery pack (optional)
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing; ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 90% , non-condensing
Input type	◎ 1~4 350Ω analog load cells ◎ Signal range: -15mV ~ 15mV ◎ Sensor bridge power supply: DC: 5V ◎ Six-wire system
Precision	◎ Accuracy class: Class III ◎ Maximum verification division: 3000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 10Hz
Display	◎ Single-window multi-function LCD display window, multi-level backlight brightness adjustment ◎ Display division value: 1/2/5/10/20/50 ◎ Decimal places: 0~3
Operation	◎ Anti-static button panel, 7 light touch buttons
Communication	◎ Analog output: 1 piece, 4~20mA (passive) ◎ Serial port (optional): 1 piece, RS232/RS485 ◎ Baud rate: 600-9600bps optional ◎ Large-screen display interface: serial output mode, current loop signal
Data storage	◎ 99 sets of weighing data and time

XK3190-Ex-C9G
EXPLOSION-PROOF WEIGHING INSTRUMENT

XK3190-Ex-C9G is an explosion-proof weighing instrument with internal safety barrier and overall explosion-proof certification. The instrument can be conveniently combined with explosion-proof resistance strain sensor and explosion-proof junction box to form an explosion-proof weighing control system, which is applicable to most explosive gas occasions such as chemical industry, pharmaceutical industry and petroleum.



- Explosion-proof grade: Exd[iaIIC Ga] IIC T6 Gb
- Industrial-grade high-reliability isolated power supply, 24VDC/220VAC input, multiple protections.
- The patented technology is added to the sensor signal acquisition and conversion circuit, which can self-diagnose and self-protect, and use more peace of mind.
- Storage, inspection, deletion, printing and other processing of weighing data records can be carried out on the instrument side, with power-off data protection.
- Strong anti-interference ability and high reliability.
- Support weight-free calibration.

Technical Indicators	
Housing, Dimensions, Weight	◎ Aluminum alloy casting, plastic spraying on the outer surface, wall-mounted installation ◎ Installation size 335×270mm ◎ Instrument size: 330*300*180mm ◎ Weight: about 10kg ◎ Explosion-proof connector: 4-M20*1.5F
Powered by	◎ Ac AC 220VAC, 50/60 Hz ◎ DC DC 12 ~30VDC
Environment	◎ Working environment: 0~40°C , RH relative humidity ⩽ 85% , non-condensing ◎ Storage and transportation environment: -20~50°C , RH relative humidity ⩽ 85% , non-condensing
Input type	◎ 1~4 analog load cells ◎ Signal range: -15mV ~ +15mV ◎ Sensor bridge power supply: DC: 5V, 80mA ◎ Six-wire system
Precision	◎ Accuracy class: Class 3 ◎ Maximum number of verification intervals: 3000 ◎ Input sensitivity: 1μV/e ◎ A/D conversion rate: ⩽ 80Hz Display
Display	◎ 7-bit LED digital tube , Character height 0.8” ◎ 7 status indicator lights ◎ Display division value: 1/2/5/10/20/50 ◎ Decimal places: 0~3
Operation	◎ 6 explosion-proof jog buttons
Communication	◎ Analog output: 1, 4~20mA/0~5V/0~10V ◎ Serial port: 1 RS232, 1 RS485 ◎ Baud rate: 1200 ~ 9600bps optional ◎ Protocol: Modbus-RTU, expandable Profibus- DP ◎ Printer interface: can be connected to a serial printer through the serial port
I/O	◎ 3 inputs and 3 outputs

T1
WEIGHING TRANSMITTER



T1 weighing transmitter is a weighing transmitter with high precision, high speed and high stability. It can expand a variety of field businterfaces, and is suitable for various high-precision, high-speed weighing and batching sites and dynamic weighing equipment with multiple nodes and centralized installation.

Certification: OIML R76:2006
Certificate number: DK 0199.36 7

Imported from Europe

- The maximum conversion rate is 300Hz.
- Din-rail installation, small size, can realize dense installation of multiple weighing nodes.
- 7-digit LED display, convenient for on-site debugging.
- Various fieldbus/industrial Ethernet interfaces can be selected to realize high-speed, multi-node fieldbus control.
- Support weight-free calibration.

Technical Indicators	
Housing, Dimensions, Weight	◎ Standard 35mm guide rail installation; instrument size: 25×115×120mm; shell, size, weight: 0.7kg
Power Supply And Power Consumption	◎ DC 12 ～ 24VDC±10%； 5W
Environment	◎ Working environment: -20~+60°C , RH relative humidity ⩽ 85% , condensate allowed ◎ Storage and transportation environment: -30~80°C , RH relative humidity ⩽ 85%, condensate allowed
Input Type	◎ 1~8 350Ω or 1~16 700Ω analog load cells; ◎ Signal range: -39mV ~ +39mV; ◎ Sensor bridge power supply: DC: 5V, 120mA; ◎ Six-wire system
Precision	◎ Maximum number of verification intervals: 10000 ◎ Internal resolution 1/1000000 ◎ Non-linearity and analog output linearity: ⩽ 0.01%FS ◎ Temperature drift and analog output temperature drift: ⩽ 0.0005%FS/°C ; ⩽ 0.003%FS/°C ; ◎ A/D conversion rate: ⩽ 300Hz
Display	◎ 7-digit LED display, character height 8mm; ◎ Display range: -999999~+999999; ◎ 6 status indicators; ◎ Display division value: 1/2/5/10/20/50/100; ◎ Decimal place : 0~4
Operation	◎ 4 touch buttons
Communication	◎ Analog output: 1, 4~20mA/0~20mA/0~5V/0~10V/±5V/±10V ◎ Baud rate: 2400 /4800/9600/19200/38400/115200bps ◎ Protocol: Modbus- RTU (order number: 8003050) Scalable: Profibus-DP (order number: 8003051), ProfiNET (order number: 8003055), DeviceNET (order number: 8003052), EtherNET (order number: 8003053), CANopen (order number: 8003054)
I/O	◎ 2 inputs and 3 outputs

INSTRUMENT ENCLOSURES

Dustproof instrument box			
Model		Material	Dimensions（Mm）
SFG01		Alloy steel spray stainless steel (optional)	400*350*250
SFG02			

Explosion-proof instrument box				
Model		Material	Dimensions（Mm）	Explosion-Proof Grade
FBG03		Alloy steel spray	400*300*200	Exd IIB T4 Gb/Ex tD A21 IP65 T130
FBG04		Alloy steel spray	430*350*220	Exd IIC T4 Gb/Ex tD A21 IP66 T80

TCS-FX SERIES HIGH SPEEDCHECK-WEIGHER



Features

- High throughput
- Accurate weighing performance
- Industrial components
- Excellent quality control
- Real-time control interface
- Rapid maintenance design



Configuration

- 10 inch touch screen computers - metal panel
- 100 kinds of product data storage
- Real-time data storage
- Protection level: IP54
- 110-230VAC power supply
- RS485 serial port output
- Sound and light alarm
- Stainless steel frame and stainless steel cabinet



Technical Parameters

model / Technical Parameters	FX200	FX600	FX1200	FX3000	unit
Maximum Capaci	200	600	1200	3000	g
Accuracy 3σ*	±0.02 ～ 0.05	±0.1	±0.2	±0.3	g
Interval value	0.02	0.05	0.1	0.1	g
Maximum Throughput*	240	200	200	200	ppm (piece/min)
Belt length（L）	200/300	200	200	200	mm
Belt widt（B）	80/150	300/400	300/400	300/400	mm
Belt shaft diamet	13	38	38	38	mm
Input and output lengt（L）	200/300	300/400	300/400	300/400	mm
Production line height	800/850（±35）	800±50			mm
degree of protection	IP54				
Rejection devic	blow air	Blow, push rod, baffle			

◎ 3sigma statistical accuracy: 99.73% of the products meet the accuracy requirements;

◎ Accuracy and throughput are closely related to product weight, size, wind force, vibration and smooth transportation.

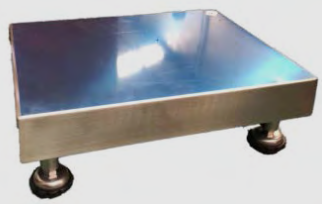
TCS SERIES ELECTRONIC BENCH SCALE



TCS series platform scale is composed of square tubes welding structure, 304 stainless steel platform, OIML C3 load cell and high precision weighing indicator. It is suitable for high-precision and small- range weighing in the laboratory and production site.

- The scale body is equipped with a level adjuster, and the height of the feet is adjustable.
- Mesa size and measuring range can be customized.
- Optional sensors and instruments with IP68 rating form a washable scale body.
- Optional intrinsic safe explosion-proof sensor and weighing instrument.
- Optional instrument with analog signal output or industrial field bus communication interface whichcan be connect to PLC/DCS.

- Accuracy grade: 1/3000, 1/6000
- Measuring range: 60kg~600kg
- Scale body structure: full square tube welding, single sensor support
- Scale body material: stainless steel/carbon steel sprayed plastic
- Countertop material: stainless steel
- Use Temperature: -10 ~+40°C
- Protection class: (optional) IP68
- Explosion-proof class: (optional) Ex ia IIC T4



mesa



scale body



Indicator

Carbon Steel	Stainless Steel	Size	Range
TCS-0304	TCS-0304S	300*400mm	60kg
TCS-0405	TCS-0405S	400*500mm	150kg/300kg
TCS-0506	TCS-0506S	500*600mm	150kg/300kg
TCS-0608	TCS-0608S	600*800mm	300kg/600kg

Note: 1. The table lists the common specifications, for other specifications, please contact us.
2. For explosionproof products, explosion-proof certificates for sensors and instruments can be provided.

SCS SERIES ELECTRONIC PLATFORM SCALE



SCS series platform scales are composed of high-strength U-shaped steel support structure, OIML C3 load cell and high-precision weighing instrument. It is suitable for high-precision and large-range weighing in the production site.

- The scale body is equipped with a level adjuster, and the height of the feet is adjustable.
- The table top can be selected from brushed stainless steel, sand blasted stainless steel, or plastic sprayed carbon steel.
- The size and measuring range can be customized.
- Intrinsically safe explosion-proof sensors and junction boxes are optional, and they can be matched with intrinsically safe or flameproof explosion-proof weighing instruments.
- An instrument with analog signal output (4-20mA/0-5V/0-10V) or industrial field bus (Modbus/Profibus/Profinet/Ethernet)communication interface can be selected to connect to PLC/DCS.

- Accuracy grade: 1/3000, 1/6000
- Measuring range: 1t~10t
- Scale body material: stainless steel/carbon steel sprayed with plastic
- Operating temperature: -10 ~+40°C
- Protection class: IP68
- Explosion-proof class: (optional) Ex ia IIC T4
- Optional base frame for foundation pit installation



Stainless Steel Material



Frame Structure With Base

Carbon Steel	Stainless Steel	Size	Range
SCS-0808	SCS-0808S	800*800mm	1.0t/1.5t
SCS-1010	SCS-1010S	1000*1000mm	1.5t/3.0t
SCS-1212	SCS-1212S	1200*1200mm	1.5t/3.0t
SCS-1515	SCS-1515S	1500*1500mm	3.0t/6.0t
SCS-2020	SCS-2020S	2000*2000mm	6.0t/10t

Note: 1. The above table lists common specifications, for other specifications, please contact us. 2. For explosionproof products, explosion-proof certificates for sensors and instruments can be provided.

SCS-PG SERIES STEEL CYLINDER SCALE



SCS-PG series steel cylinder scale adopts double-layer scale body structure, high-strength nylon rollers, OIML C3 load cell and high-precision weighing instrument. It is suitable for highprecision weighing measurement of steel cylinders in various environments.

- The countertop can be made of carbon steel plastic spraying, stainless steel wire drawing, or stainless steel sandblasting, which has strong anti-corrosion ability.
- Alloy steel and stainless steel are optional for load cell material.
- Double-layer scale body, high weighing accuracy.
- Intrinsically safe explosion-proof sensors and junction boxes are optional, and they can be matched with intrinsically safe or flameproof explosion-proof weighing instruments.
- Optional instrument with analog signal output or industrial field bus communication interface whichcan be connect to PLC/DCS.

- Accuracy grade: 1/3000, 1/6000
- Measuring range: 1.5t~3t
- Scale body structure: supported by four sensors
- Scale body material: stainless steel/carbon steel sprayed with plastic
- Operating temperature: -10 ~+40°C
- Protection class: IP67
- Explosion-proof class: (optional) Ex ia IIC T4



Scale Body



Feet



Indicator

Carbon Steel	Stainless Steel	Size	Range
SCS-0812-PG	SCS-0812S-PG	800*1200mm	1.5t/2.0t/3.0t
SCS-0812-PG-EX	SCS-0812-PG-EX	800*1200mm	1.5t/2.0t/3.0t
Note: 1. The above table lists common specifications, for other specifications, please contact us. 2. For explosio-proof products, explosion-proof certificates for sensors and instruments can be provided.			

SINGLE SCREW LOSS IN WEIGHT FEEDERS

- Equipment application：Continuous or batch precise feeding of solid materials.
- Applicable materials：Granular materials, powder materials, small-sized flake materials and small-sized fiber materials with good fluidity.

- Flow accuracy ⩽ ±0.5% , quantitative accuracy ⩽ ±0.2% , Specifically related to material characteristics
- Advanced adaptive PID control algorithm automatically adjusts for feeder nonlinearity.
- Rich experience in platform scale design and deeply customized load cell make the loss in weight scales weighing accuracy and overall anti-interference ability better.
- Using high-performance weighing instruments and controllers, and 32-bit high-speed MCU, the sampling and processing speed is faster, and the accuracy, stability and reliability are higher.
- Quick custom design and delivery.



Technical indicators

Type	Feeding Range（L/h）	Motor Power (KW)	Hopper Capacity (L)
LWF-S46	5~150	0.4	40/80
LWF-S70	25~800	0.75	80/120/160
LWF-S100	50~1500	1.0	80/120/160/300

DOUBLE SCREWS LOSS IN WEIGHT FEEDERS

- Equipment application：Continuous or batch precise feeding of solid materials.
- Applicable materials：Granular materials, powder materials, small-sized flake materials and small-sized fiber materials.

- Flow accuracy ⩽ ±0.2%， quantitative accuracy ⩽ ±0.1%，Specifically related to material characteristics
- The double screws can self-cleaning.
- Advanced adaptive PID control algorithm automatically adjusts for feeder nonlinearity.
- Rich experience in platform scale design and deeply customized load cell make the loss in weight scales weighing accuracy and overall anti-interference ability better.
- Using high-performance weighing instruments and controllers, and 32-bit high-speed MCU, the sampling and processing speed is faster, and the accuracy, stability and reliability are higher.
- Quick custom design and delivery.



Technical indicators			
Type	Feeding Range（L/h）	Motor Power (KW)	Hopper Capacity (L)
LWF-D14	1~20	0.2	10/20
LWF-D20	2~60	0.4	20/40
LWF-D28	5~150	0.75	40/80
LWF-D38	20~600	1.0	80/120/160
LWF-D46	50~1500	1.5	120/160/300
LWF-3D64	150~15000	3.0	600/1000/2000

LIQUID LOSS IN WEIGHT FEEDERS

- Equipment application：Continuous or batch high-precision feeding of various liquid materials.

- Flow accuracy ⩽ ±0.2%， quantitative accuracy ⩽ ±0.1%，Specifically related to material characteristics
- Advanced adaptive PID control algorithm automatically adjusts for feeder nonlinearity.
- Rich experience in platform scale design and deeply customized load cell make the loss in weight scales weighing accuracy and overall anti-interference ability better.
- Using high-performance weighing instruments and controllers, and 32-bit high-speed MCU, the sampling and processing speed is faster, and the accuracy, stability and reliability are higher.
- Quick custom design and delivery.



Technical indicators			
Type	Feeding Range（L/h）	Motor Power (KW)	Hopper Capacity (L)
LWF-L20	2~20	0.4	10/20
LWF-L100	10~100	1.0	20/40/80
LWF-L200	20~200	2.0	40/80/120

FLEXIBLE BATCHING SYSTEM

It is suitable for high-precision batching applications of small-volume liquid materials such as distribution of additives, small order production, and color matching.

- It can be connected to enterprise ERP or central control system to realize formula downloading.
- Powerful formula management function, supporting formula downloading, editing, archiving and calling. and has data report function.
- The filling head is anti-splash, anti-drip and with quick connection design, which is easy to disassemble and clean.
- English operation interface, touch screen operation, easy to use.
- Combining PDA with QR scan nin g to ensure.





FILLING EQUIPMENT

It is suitable for automated filling of flowable chemical liquids such as paint, ink, adhesive, curing agent, lubricating oil, resin, emulsion, real stone paint, sulfuric acid, etc.

- Multiple filling capaity are optional: 1-5kg/5-30kg/30-50kg/100-1000kg.
- Accuracy: ⩽ 0.1%FS
- Two speed options (fast/slow).It adopts English operation interface, which is easy to understand and operat and has data report function.
- The filling head is anti-splash, anti-drip and with quick connection design, which is easy to disassemble and clean.
- Optional single or dual filling platform(s) .
- Optional roller conveying and automatic capping function.
- Optional rocker arm filling method.
- Optional explosion-proof configuration.










UNATTENDED VEHICLE WEIGHING MANAGEMENT SYSTEM

Introduction

The unattended truck weighing system basing on our internet of thing(IOT) indicator, combines ZEMIC mature software and hardware technologies, and realizes automatic information and data collection, automatic discrimination, automatic command, and automatic weighing in the entire weighing process. Weight measurement, automatic weighing result processing, automatic process control, minimize the disadvantages caused by manual operation, and can effectively realize the informationization and automation of weighing measuremen.

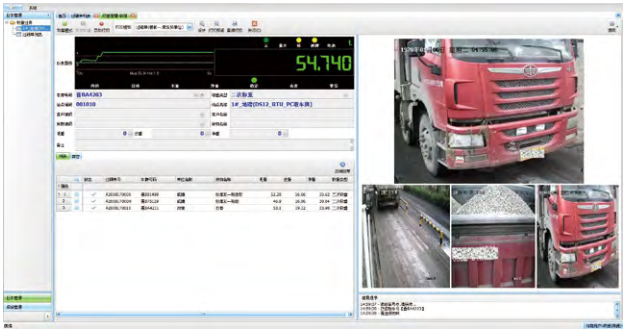


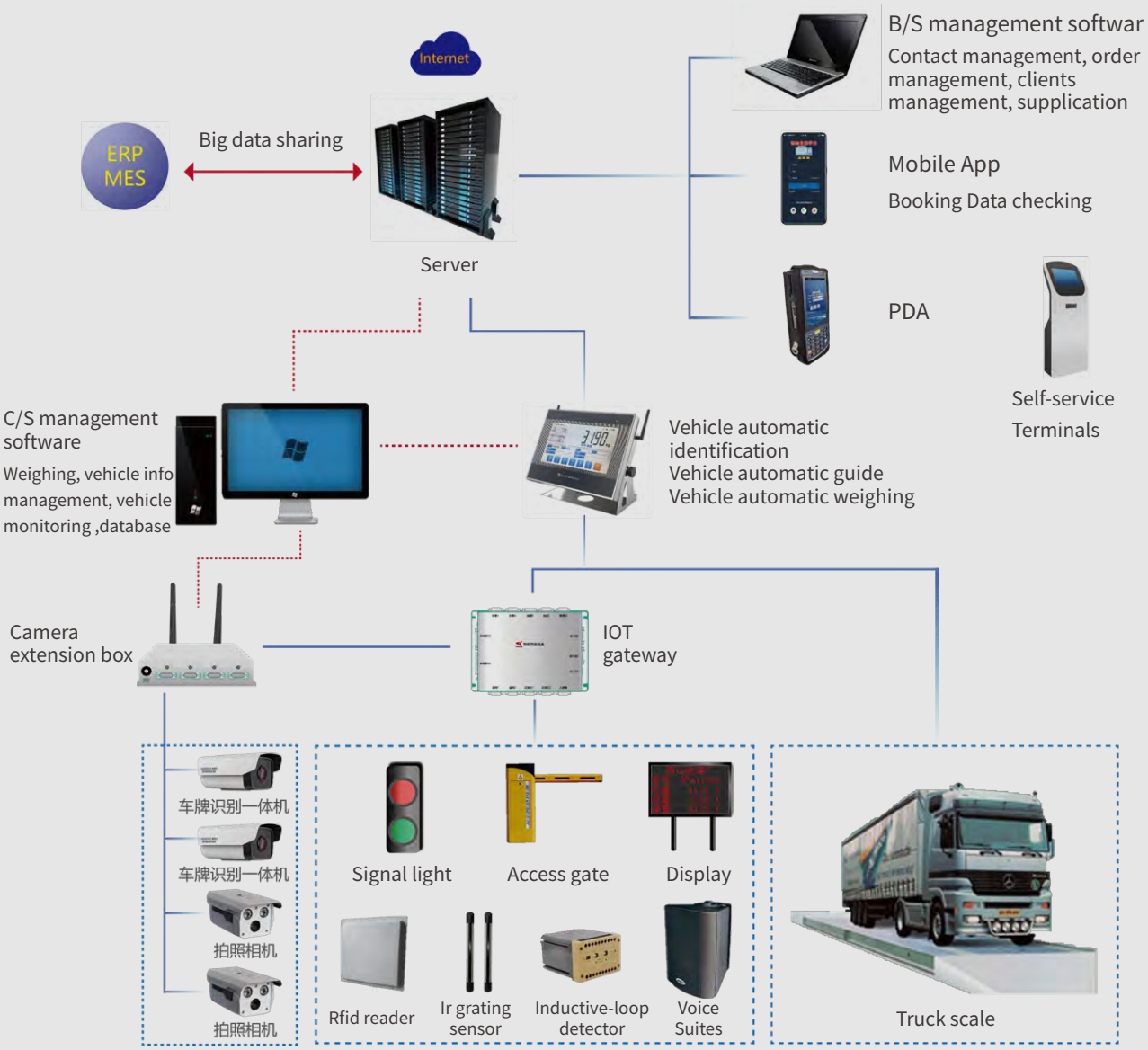
System feature

- Automatic data collection and anti-cheating
- Intelligent weighing process and information management

Main components of the system

- Vehicle information recognition system: one-card, license plate recognition.
- Vehicle weighing system: digital truck scale, Internet of Things junction box, Internet of Things instrument .
- Vehicle guidance system: barrier gate, ground sense, grating, surveillance camera, traffic lights, large screen, voice.
- Weighing management software: hardware control, weighing information recording, storage, transmission.




Internet
ERP
MES
Big data sharing
Server
B/S management softwar
Contact management, order management, clients management, supplication
Mobile App
Booking Data checking
PDA
Self-service Terminals
C/S management software
Weighing, vehicle info management, vehicle monitoring ,database
Vehicle automatic identification
Vehicle automatic guide
Vehicle automatic weighing
Camera extension box
IOT gateway
车牌识别一体机
车牌识别一体机
拍照相机
拍照相机
Signal light
Access gate
Display
Rfid reader
Ir grating sensor
Inductive-loop detector
Voice Suites
Truck scale



CORPORATE PARTNER



WEIGHING SYSTEM DESIGN INFORMATION CONFIRMATION FORM

WEIGHING MODULE

1. Vessel Type：Vertical Tank ☐ Horizontal Tank ☐ Hopper ☐ Silo ☐ Other (cylindrical)
2. Dimensions:Diameter: _____height (Vertical Tank) _____length (horizontal tank)
   Length:_____ Width:_____ High:_____ (rectangle)
3. Number of Supports (Lugs/Foot/Boom) _____
4. Distance Between Supports: _____
5. Total scale: _____ Requirements for the overall accuracy_____ Net weight of container: _____
6. Maximum material weight:_____
7. Whether there is stirring: Yes ☐ No ☐
8. Whether there is partial load: Yes ☐ No ☐
9. Whether the installation area is a hazardous area: Yes ☐ No ☐ Explosion-proof level requirements: _____
10. Is there any corrosive gas or liquid in the installation area: Yes ☐ No ☐
11. The ambient temperature range of the installation area: _____
12. The installation method of the weighing module: press type ☐ pull type ☐
13. The location of the weighing module installed in the container: Bottom ☐ Waist ☐ Top ☐
14. Weighing module installation location: Steel structure ☐ Steel platform ☐ Concrete floor (with embedded steel plate) ☐ Concrete floor (without embedded steel plate) ☐ Others _____
15. The distance between module and weighing indicator: _____

WEIGHING CONTROLLER/INDICATOR

1. Installation method: wall-mounted ☐ panel ☐ panel (with independent instrument box) ☐ guide rail ☐ other _____
2. Power supply mode: 220VAC ☐ 24VDC ☐
3. Communication method: Analog signal: 4-20mA ☐ 0-5V ☐ 0-10V ☐
   Digital signal: ModBus RTU ☐ ProfiBus DP ☐ CANOpen ☐
   Industrial Ethernet signal: ModBus TCP/IP ☐ ProfiNet ☐ EtherNet ☐
4. Whether the installation area is a hazardous area: Yes ☐ No ☐ Explosion-proof grade requirements: _____
5. Sampling rate requirements: _____
6. I/O control interface requirements: _____

PLATFORM SCALE

1. Range: _____
2. Accuracy: 1/3000 ☐ 1/6000 ☐
3. Table size: _____
4. Structure: single layer ☐ double layer (including frame) ☐
5. Sensor material: alloy steel ☐ stainless steel ☐
6. Scale body material: alloy steel ☐ Stainless steel ☐
7. Table material: alloy steel ☐ Stainless steel ☐
8. Whether the installation area is a hazardous area: Yes ☐ No ☐ Explosion-proof grade requirements:_____

ZEMIC

www.zemic.com.cn

Customer hotline : (0086) 4007-300-114

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The technical specifications are subject to change without prior notice, and the company reserves the right of final interpretation and modification.