# 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, explosion-proof certification level: Exd IIB T6 Gb.

| 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 AC 24V AC, 50/60 Hz |
| Environment | ◎ Working environment: 0~40°C , RH relative humidity ⩽ 90% , non-condensing<br>◎ 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<br>◎ 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<br>◎ 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 signa. |
| 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 dat |





# 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<br>◎ 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, 80mA; six-wire wiring |
| Precision | ◎ Accuracy grade: Class III ◎ Maximum number of verification intervals: 3000<br>◎ 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<br>◎ 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 |