GBOX-802CD

Linear Feeder Controller

The GBOX-802CD is a weighing module developed for linear feeder packing systems with vibrators. The new algorithm makes the weighing control faster and more accurate. Various communication ports make the equipment easier to interconnect with the system. It is suitable for weighing powdery or small granular materials in sizes from 10.0 to 5000.0 g, such as sugar, salt, seeds, rice, sesame, spice, milk powder, coffee, washing powder, etc.

Functions

- For dual packing scales, up to 3 controllers for 6 packing scales interlocking without PLC;
- 4 analog voltage outputs for vibrator feeding, with self-finding and self-correction;
- Support for various discharging mechanisms: pneumatic, common motor, stepper motor, etc.;
- 2 RS485 communication, support Modbus-RTU/ASCII protocol ;
- The example of McgsPro touch screen source code for single/dual/four/six scales is available;
- Support for bag clamping, material level control, over-under alarm and under-under replenishment;
- Functions for packing with two channels and automatic correction of the internal parameters of the module, which greatly improves the speed and makes the system more intelligent.

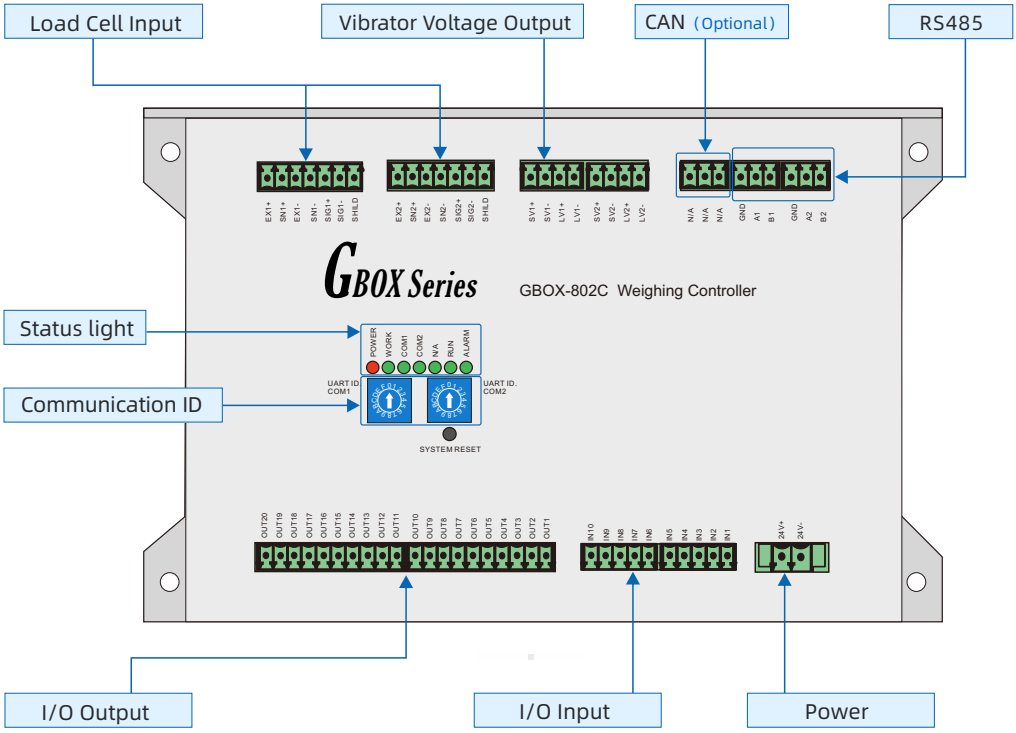
Hardware Interface

- **RS485 Communication:** for PC, PLC, printer, tag printer, remote display, or other external device;
- **I/O 10 Input/20 Output:** for starting, stopping, discharging, feeding, I/O definable for different applications;
- **2 load cell interfaces:** for the 6-wire load cell scale, 1 interface can connect up to 8 load cells with 350Ω;
- **4 analog interfaces:** for vibrator voltage output, output range: 0~5000mV.

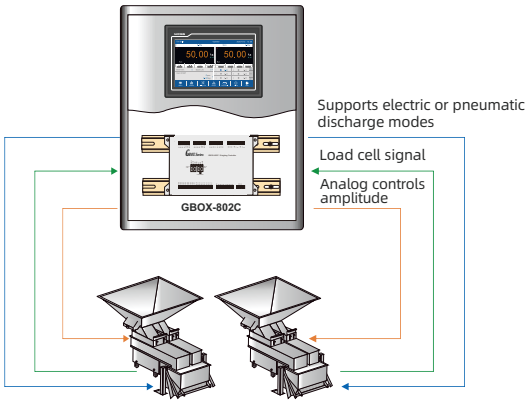




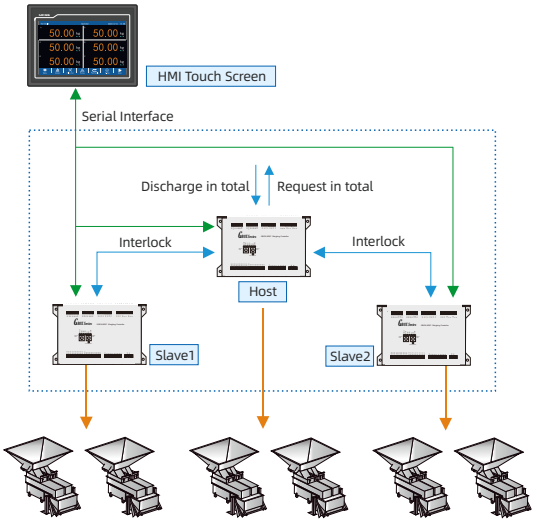
Port Sign



Applications Diagram



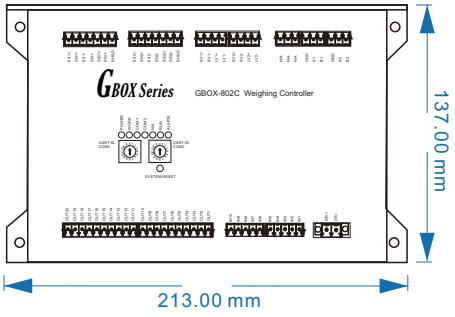
GBox-802CD for 2 Linear Feeder Packing Machine without PLC

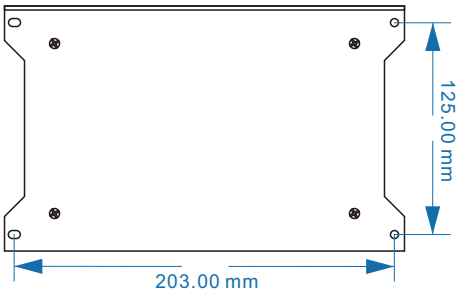


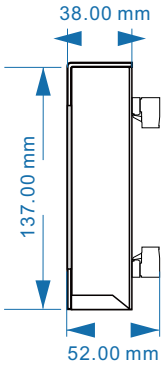
GBox-802CD for 6 Linear Feeder Packing interlocking without PLC

Specifications

General Specifications	Model	GBOX-802CD
	Power	DC 24V ±5%
	Working Temperature	0～40℃
	Humidity	90%R.H no condensation
	Power Consumption	Approx.3W
	Calibration standard	ClassIII6000e, 1μV/d
	Size	213mm ×137mm ×38.5mm
Weighing Parameters	A/D Conversion	24bits Sigma-Delta
	Nonlinearity	0.01%F.S
	Gain Drift	10 PPM/℃
	Sensitivity	0.02μV/d
	Input range	0.02~11mV (load cell: 2mV/V)
	Load Cell Power	DC5V, 125mA(Max)
	Input Impedance	10MΩ
	Zero Adjustment Range	Max 0.02~8mV (load cell: 2mV/V)
Hardware Interfaces	Load Cell Interface	6-wire load cell scale, 1 interface can connect up to 8 load cells with 350Ω
	I/O Interface	10 IN 20 OUT transistor interfaces (OUT16-19 is PWM)
	Communication Interface	2 RS485 communication interfaces
		1 CAN interface (optional)
	Analog Interface	4 vibrator voltage output, output range: 0~5000mV







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