

EM210

Weight indicator and controller

EM210 is an industrial-grade process control weight indicator and controller, dual screen display design, one for weight digits, the other for menu configuration and other text message



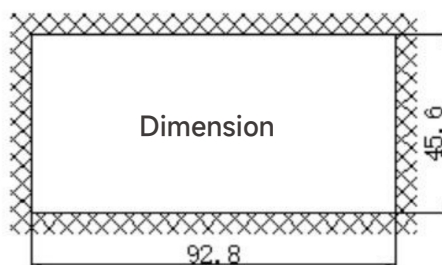
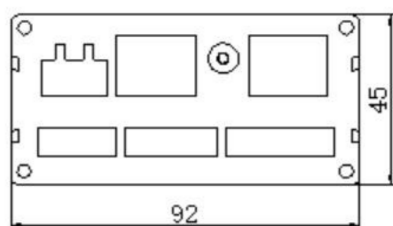
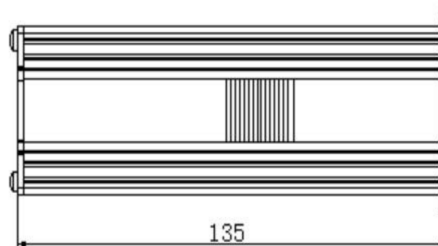
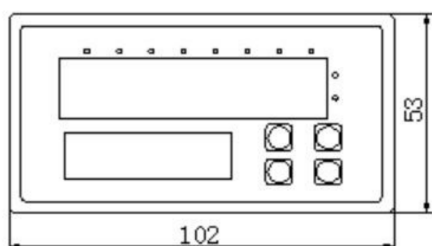
Key features

- Dual screen display**
 - six digits LED, 1.7 "OLED screen for text message
- Compact structure**
 - Panel structure convenient to embed in electrical cabinet
- Communication interface**
 - Standard isolated RS232 and isolated RS485; CAN Optional Analog output, 4~20mA/0~10V; Ethernet port discrete I/O port, 4 inputs and 4 outputs.
- Communication Protocols**
 - Modbus-RTU, Modbus-TCP, CANopen, command output
- Typical application**
 - basic weighing, check-weigh, filling/dosing, packaging application programming.



Dimensions

Unit: mm



Specifications

Product model	EM210
AC/DC Power	85-264VAC / 18-36VDC
Li-Battery capacity※	-20 ~ +60
Display screen	LED nixie and 1.7 "OLED dot matrix display
Number of verification scale intervals (e)	3000
Number of scale intervals for indicator (d)	100000
Number of sensors	Up to 4 350 Ohm load cells (2 or 3mV/V)
AD sampling rate	300Hz
Load cell Excitation	5VDC
Minimum sensitivity	1 μV/e
Accuracy class	III
KeyPad	4 key control
Communication protocol	Command output, continuous output, Modbus RTU, Modbus TCP
Calibration method	Weight calibration; Weight-free calibration; Remote calibration
Scale	1
Capacity	1-500,000kg (default 60)
Increment size	0.001/0.002/0.005
	0.01/0.02/0.05 (default 0.01)
	0.1/0.2/0.5
	1/2/5
Baud rate	10/20/50
	1200, 2400, 4800, 9600 (default), 19200, 38400, 57600, 115200
Serial ports	1 way RS232/RS485 multiplex (isolation)
	1 way RS232
	1 way CAN (isolation)
DIO interface	4 inputs (optocoupler isolation) / 4 outputs (relay contacts)
Ethernet interface ※	Port rate 10Mbps/100Mbps adaptive
Analog quantity ※	1 way 4-20mA or 0-10v
DIO interface 2 ※	4 inputs (optocoupler isolation) / 4 outputs (relay contacts)

Note: The list marked with ※ is optional, customers need to purchase separately.

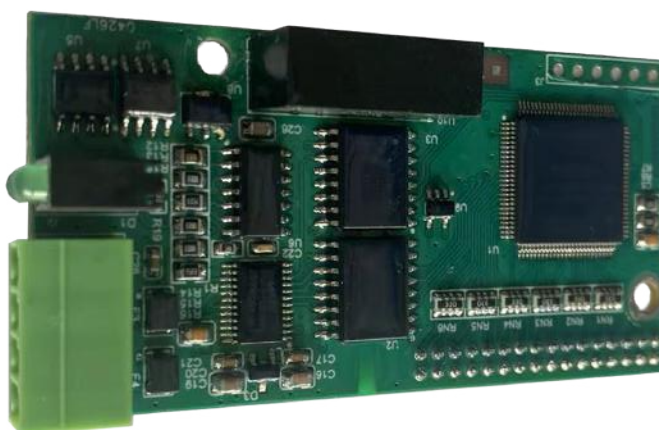
Optional board

EM210 DIO board



DIO board	Feature	Terminal mark	Terminal function description	Electrical specification	
Input/output	Extended input/output signal interface	IN5	Extended input 5	Input point mode: DC Input voltage: 24VDC Input current: 5mA	
		IN6	Extended input 6		
		IN7	Extended input 7		
		IN8	Extended input 8		
		COM3	Extended input 5-8 Com	Input point mode: DC Current: 2A/1point Voltage: 250VAC,30VDC Maximum load: 10W	
		OUT5	Extended output 5		
		OUT6	Extended output 6		
		OUT7	Extended output 7		
		OUT8	Extended output 8		
		COM4	Extended output 5-8 Com		

EM210 Analog board



Analog board	Feature	Terminal mark	Terminal function description	Terminal function
Analog output	Voltage output	V0	Voltage output	Output range: 0-10V DC Load: $\geq 1k\Omega$
		VGND	Voltage output grounded	
	Current output	A0	Current output	Output range: 0-20mA DC Load: $\leq 500\Omega$
		AGND	Current output grounded	

EM210 Ethernet board



Ethernet board	Feature	Terminal mark	Port function description	Electrical performance
Network connection	Feature	LAN	Supports Modbus-TCP1 Modbus-TCP2 Continuous output	Port rate 10Mbps/100Mbps self-adaptation