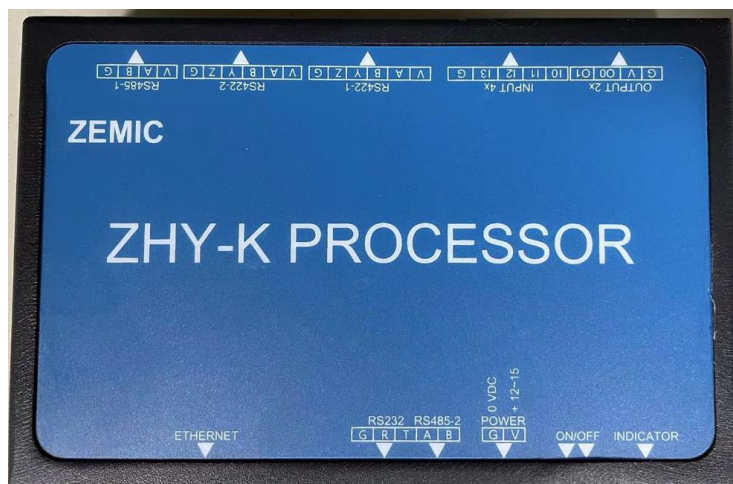


Processor ZHY-K datasheet



◆ Product profile



The integrated processor can be connected up to 64 weighing units, which can realize the accurate identification of the number of items through parameter configuration. The product is used in new retail areas for scenarios such as vending machines, smart shelves and automation storage management.

◆ Product function

- 1) The device info(such as ID, IP) can be configured by communication interface.
- 2) It's able to receive material configuration information, including material number and specification, weight and tolerance.
- 3) Reporting weight, material qty, previous weight and material qty regularly.
- 4) Reporting sensor online status in real time.
- 5) It can display the equipment operation status.

◆ Product characteristics

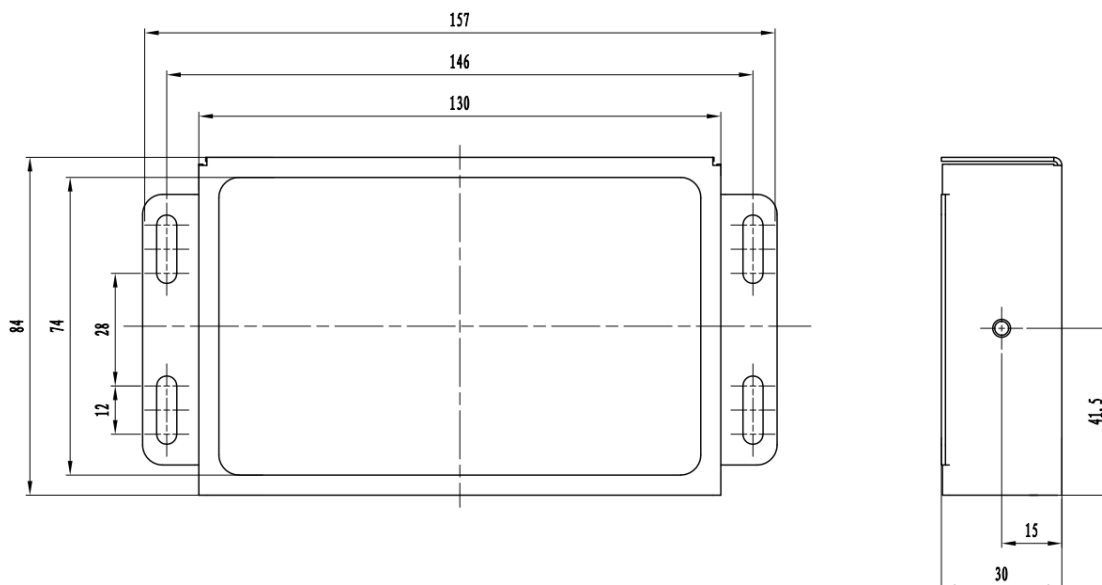
- 1) Connection number of sensing units Up to 64
- 2) It can be connected with the indicators, electronic display screens and other peripheral devices;
- 3) There are various communication interfaces, such as RS485, RS232 and TCP/IP,
- 4) Compact size for easy installation

◆ Specifications

Item	Specification	Note
Operating temperature	-20℃ ~ +60℃	
Power supply voltage	DC 12~18V, $\pm 0.5V$	
communication interface	Ethernet, 1 port	
	RS422, 2 ports	connection port for load sensing unit
	RS485, 2 ports	
	RS232, 1 port	
IO output control port	2 ways	One port is 12V, the other way is option
IO input detection port	4 ways	12V signal detection

◆ Outline dimension

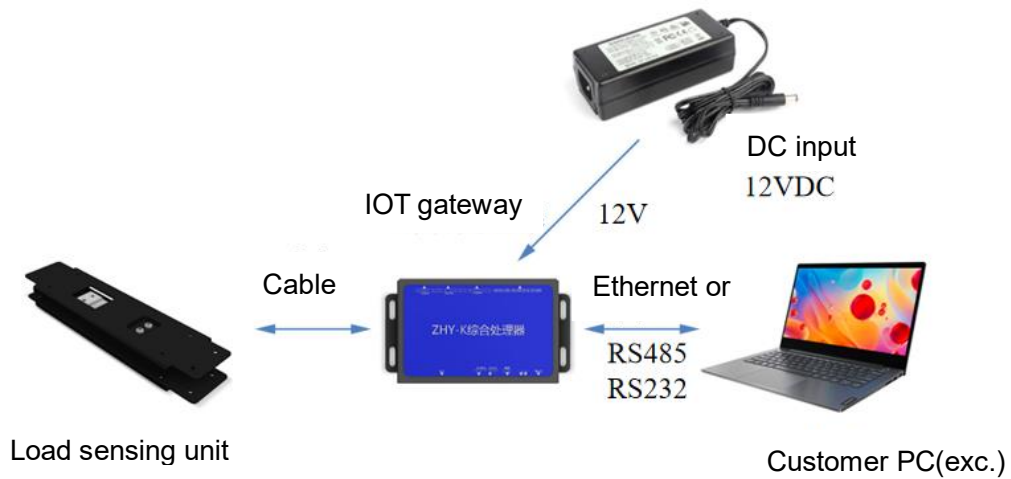
Outline: length 157 mm×width 84 mm×high 30 mm (including shell)



Picture 1 Outline

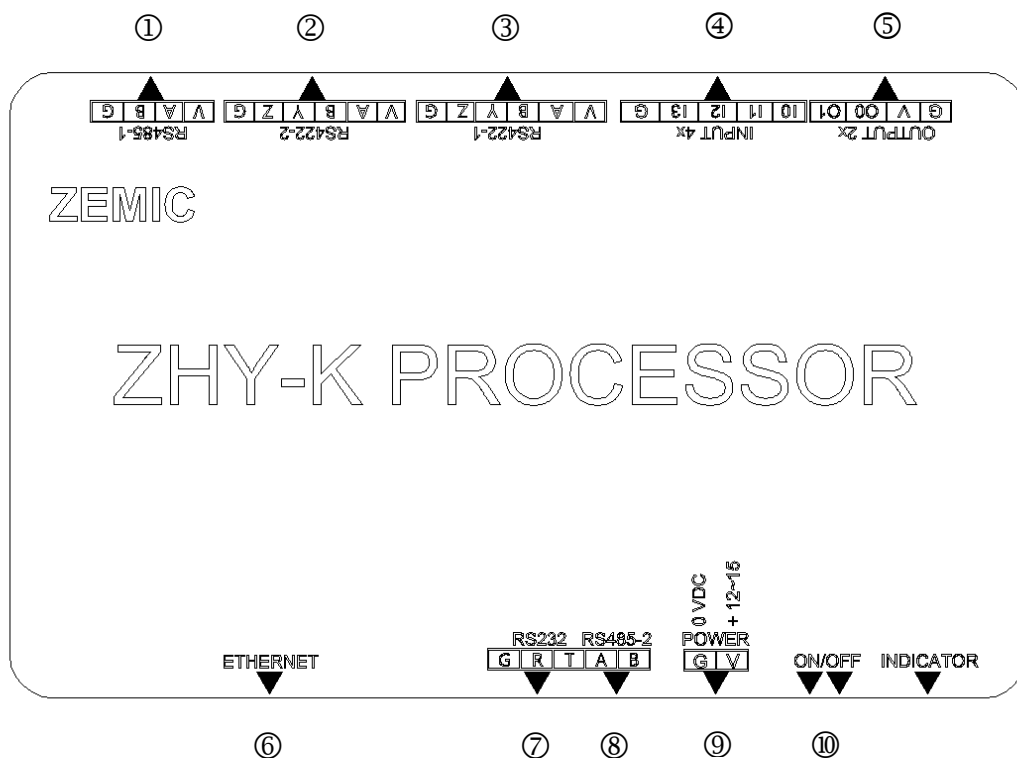
◆ Connection

1) Object identifying system connection overview



Picture 2 connection topological diagram

2) Processor Port definition



Physical Interface Port definition

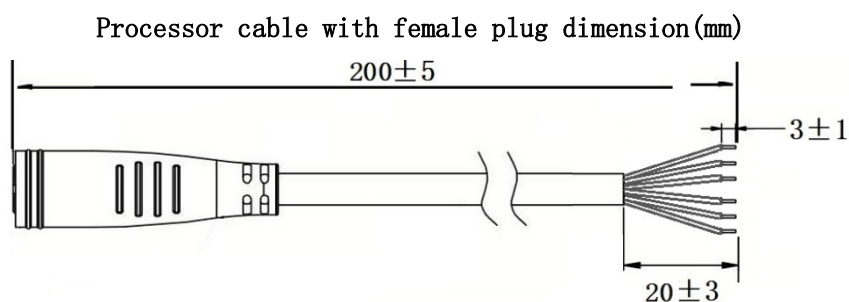
Interface port No.	Port definition	Note
①	RS485-1	Electronic Tag led communication
②	RS422-2	Load sensing unit port, addressing No.33~64
③	RS422-1	Load sensing unit port, addressing No.1~32

④	Input 4x	For 12V IO detection
⑤	Output 2x	Output control for other device
⑥	Ethernet port	Connecting with Master server
⑦	RS232	Reserve ports for communication
⑧	RS485-2	Reserve ports for communication for Master and Slave
⑨	Power	Power supply 12V
⑩	Switch	Power switch
-	Indicator light	Green: operating Yellow: error Red: power

3) Wiring and Connecting of cable plug

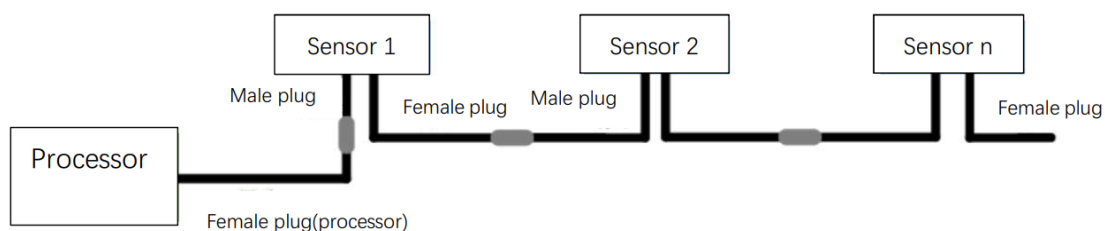
Wiring table for connection between processor cable and port ②or③(RS422 ports)

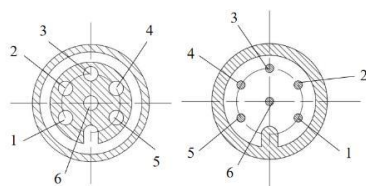
No.	Wire color	Port marking	Function
1	Red	V	Sensor power
2	White	A	RS422_R+
3	Green	B	RS422_R-
4	Blue	Y	RS422_T+
5	Yellow	Z	RS422_T-
6	Black	G	Sensor Ground



The cable connection between processor and load sensing unit is as below.

Regarding to cable connection to related port of processor, please refer to processor port definition.





Female plug

Male plug