

The W608 Series Module

The W608 acquisition module, composed of the host HW300-Z and the data acquisition module W608, uses a 24-bit high-precision AD sampling chip with an accuracy of 0.05%. Differential isolation technology makes sampling more stable and accurate. The channel type supports arbitrary switching of thermal resistance signal, thermocouple signal, current signal and voltage signal. The number of channels can be freely combined, simultaneous sampling for 256 channels max.

6Communication modes

Support wireless, wired, a total of 6 communication modes, the real acquisition module for field application; support wifi, Ethernet, 4G, 2G, ZIGBEE, RS485 communications.

0.005%

High sampling accuracy

Restoring the most real data on site is one of the most basic and simple functions of the W608 acquisition module.

256 Channels simultaneous acquisition

With modular design, a single module can support 256 channels of data acquisition, which brings richer scalability and higher field application possibilities.

20 kinds of signal acquisition

20 kinds of signal acquisition are built in the acquisition card, and one module can solve the sampling of the most of the analog signals on the market.

7*24 hours

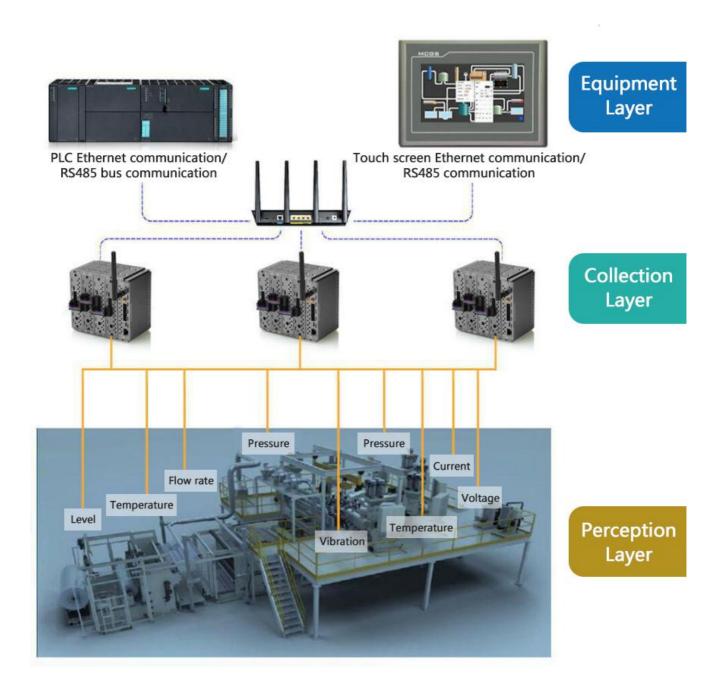
Anti-high pressure work

3000V voltage pressure protection between channels and power supply; 400V AC/DC protection between channels;380V AC/DC live test is no longer a problem; insulation protection is not needed.



Various Applications of W608-A Module and Data Acquisition Site

1. Monitoring of PLC, Touch Screen and Other Secondary Instruments



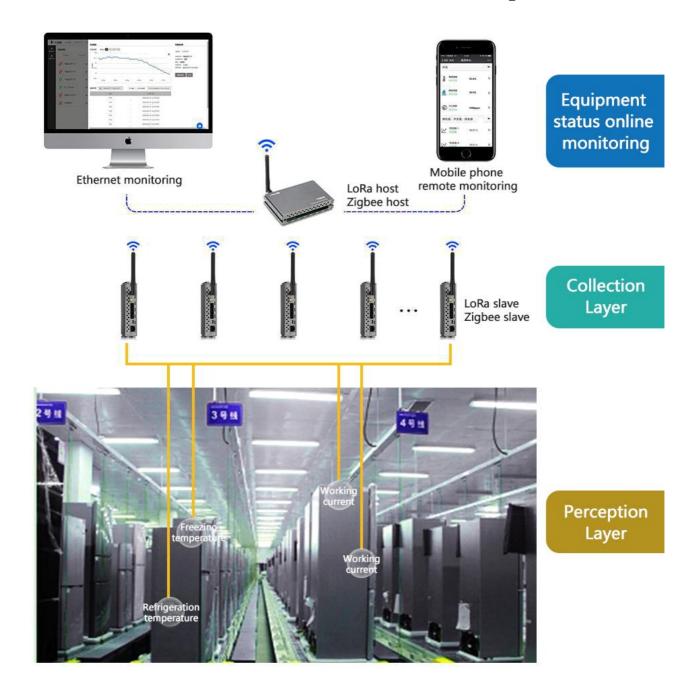


2. WiFi+Ethernet LAN (Internet of Things)





3. ZIGBEE/LORA Wireless Decentralized Data Monitoring





Successful Cases

HUAWEI electric cabinet temperature rise online monitoringFoxconn production line online monitoringDOMETIC Group Refrigerator & Air Conditioner Automatic Test System

Model Description

Product Model#	Model Description	Remarks
W608-A	Universal version	
W608-Z	Zigbee wireless communication	Standard RS485, TYPE-C port
W608-L	LORA wireless communication	



Specifications

Communication port features:	Data sampling port features:		
(1) RS-485 port	Number of channels: 8 differential		
RS-485 (2-wire) dual-port parallel	AD level: 24-bit high-precision dedicated IC		
Communication parameters: 9600bps8,N,1	Sampling mode: Turning type of independent sampling		
The max communication distance: 1.2 km	Sampling objects: refer to the following table 1		
Communication protocols: Advantech protocol, Modbus RTU protocol	Sampling accuracy: refer to the following table 1		
Device address range: 1~255	Sampling rate: 8HZ		
Surge and electrostatic (4000V) protection for RS-485 communication lines	Channel isolation voltage: 400V AC/DC		
(2) USB port (standard metal shell)	Isolation voltage from power supply: 1500V DC		
Standard TPYE-C port, used for communication, parameter configuration and equipment	Fault and overvoltage protection: Maximum withstand voltage ±15V		
Communication parameters: 9600bps8,N,1	Input impedance: more than 2M (voltage type) less than 50Ω (current type)		
Communication protocols: Advantech protocol, Modbus RTU protocol	Temperature drift: ±25PPM/°C		
	Annual drift: ±100ppm/Y		
	Electrostatic protection: 2000V		
Power supply features:	Environmental features:		
Power supply:	Working environment: -20°C∼70°C		
DC 8V~28Vdc (terminal), +5V (USB)	$0{\sim}95\%$ RH without condensation		
Power consumption: 0.15W	Storage environment:-25°C~85°C 0~90%RH without condensation		
Power supply reverse protection,			
wrong connection protection			
Mechanical features:			
Shell color: dark gray/tarnish color			
Dimension: 90*63*25mm/121.7*80*25.6mm			
Shell installation method: built-in/national standard C45 rail installation			
Protection level: IP40			
Fire-protection rating: UL94			



WIRELESS MONITORING SYSTEM

	Input type	Measurable range (Indicating range)		Measurement accuracy (reference error, absolute error)	resolution	Modbus protocol data bit	
	0-10V	-0.5Vto+11.000V		0.001%F.S±0.0001V	+01.000 1digit	0.01%	
	0-5V	-0.5V to+5.500V		0.02% F.S±0.0001V	+01.000 1digit	0.01%	
	±20mV	-21mV to+21mV		0.0025%F.S±0.001mV	+10.000 1digit	0.1%	
	±100mV	-110.0mVto+110.0mV		0.0005%F.S±0.001mV	+099.00 1digit	0.1%	
	4-20mA	+3mAto+2	21.00mA	0.005%F.S±0.001mA	+01.000 1digit	0.1%	
	K	-60°Cto+1	372°C	0.05% F.S±0.5°C	+1000.0 1digit	1%	
	J	-200°C to+1200°C		0.05% F.S±0.5°C	+1000.0 1digit	1%	
Measuring range	Е	-200°C to+1000°C		0.05% F.S±0.5°C	+0999.0 1digit	1%	
runge	Т	-200°C to+400°C		0.1% F.S±0.5°C	+0300.0 1digit	1%	
	N	-200°C to+1300°C		0.05% F.S±0.5°C	+0300.0 1digit	1%	
	W	+1500°C to+2315°C		0.2% F.S±1.1°C	+1000.0	1%	
		0°C to+1500°C		0.1% F.S±1°C	1digit		
	R	+300°C to+1768°C 0°C to+300°C		0.1% F.S±0.8°C 0.5% F.S±1.6°C	+1000.0 1digit	1%	
		+300°C to+1768°C		0.1% F.S±0.9°C	+1000.0	1%	
	S	0°C to+300°C		0.5% F.S±1.6°C	1digit		
		+600°C to+1820°C		0.1% F.S±1.0°C	+1000.0		
	В	+400°C to+600°C		1% F.S±1.7°C	1digit	1%	
	Pt100	-200°C to+660°C		0.05% F.S±0.3°C	+0300.0 1digit	1%	
	Cu50	-50°C to+150°C		0.2% F.S±0.3°C	+0100.0 1digit	1%	
	PT1000	-200°C to+300°C		0.1% F.S±0.3°C	+0100.0 1digit	1%	
Preheat time	Over 30 1	minutes					
Environme ntal	Ambient to	emperature	-20°C to+	.70°C			
adaptabilit y	Ambient	humidity	0 to 95%l	0 to 95%RH (no condensation)			

Register List

W608 Register Address Occupied:

Parameter Register Address		ddress	Register	Contents	Onomation	
Category	hexadecimal	decimal	Name	Contents	Operation	
Measured values	00-1FFH	0-511	Data Value[0] - Data Value[511]	Receive external data value, a total of 256 channels (The number W608 can be connected is 256/8 = 32; the number H401 can be connected is 256/(2*the number of channels of the single device))	Read only	

Device type	Device Address	Register Address Occupied	Total Number Connectable
W608	1	0-15	
	2	16-31	
	•••		
	32	496-511	32

W608Calculation formula of register: 01

 $Reg_add = device_add * 16 + 2 * ch_id;$

Reg_add: register address;

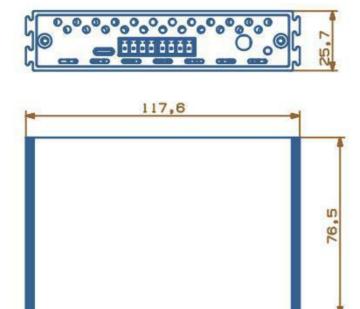
ch_id: Channel no. of device starting from 0-7 for channels of each W608

2.6Meaning of Indicator Lights

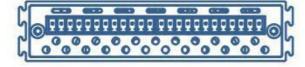
Light color	Green	Constant red	Flashing violet	Flashing red	Flashing yellow	Flashing sky- blue
Status	Normal	The wireless communication module fails to start, the wireless communication module is abnormal	Abnormal GPRS network or WIFI connection	The wireless connection to the server, or the network port function socket connection fails	SIM card is abnormal	Wireless network signal is too poor
Solutions	None	If the device reset has no wireless transmission function, go to the configuration tool to turn off the wireless device; for other cases, contact the aftersales of the original factory.	Check if the WIFI account configuration is wrong, or GPRS SIM card is still in credit or it has expired.	Check if the network configuration is wrong, if there is no error, check if the WIFI network is interrupted or if the host computer is connected or if the network is normal.	Wipe the SIM contact surface and insert it into the SIM slot of the device.	Check if the antenna connection is firm; still not working, change the device placement position.



Product Dimension







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