



H7-1200 PLC

Product Catalog

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About us

Shenzhen Huceen Automation Technology Co., Ltd. is specialized in industrial automation products R & D, production, sales and technical services, We rely on professional R & D team and years of industry technology accumulation, to supply high-quality, high-performance, highly competitive automation products and total solutions for customers.

Our company has HUCEEN brand E7 H7 series PLC, Hpanel series HMI, HBox Internet of Things module and HCloud industrial cloud platform and other products.It provides system solutions for auto industry, electric power, chemical industry, metallurgy, environmental protection, water treatment, new energy, rail transportation and other industries, and it is widely used in electronic equipment, plastic machinery, packaging machinery, ceramic machinery, textile machinery, HVAC equipment, medical equipment, CNC equipment and many other industries.

We adhere to the business philosophy of integrity and truth-seeking. We build on the industrial automation with our own intellectual property rights, and promote the competitiveness and profitability of our customers. We work with our customers to create a win-win situation, realize enterprise value and customer value grow together.

700K
Quantity of shipment

30+
Cooperated Listed Company

80+
Sales and service network



National High-tech Enterprise



30+ Technology patents



4 core technologies

Mission
To help customers become industry leaders

Vision
To become a respected and global supplier of industrial automation products and solutions

Value
Integrity, specialty, innovation, sharing

Operation philosophy
Improve customers competitiveness continuously , we not only provide excellent products and services, but also supply customers with more industry knowledge and more professional technical solutions.

Huceen product system

CATALOG

PLC

200Smart

E7 200Smart

E5 200Smart

E3 200Smart

H7-1200

Distributed Remote I/O



云组态

客户管理

统计分析

数据报表

HCloud

Internet of Things

H-Box

Smart Box

IoT PLC E7 200 Smart

HCloud industrial cloud platform

HMI

Hpanel 7-inch

Hpanel 10-inch



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H7-1200 Series

Product Introduction

The H7-1200 series PLC is designed to promote intelligent manufacturing and meet the pain points of small and medium-sized automation complex application scenarios and industrial upgrading. It has the characteristics of fast speed, stable performance, flexible use, and powerful functionality.

CPU Port Diagram



Function Features

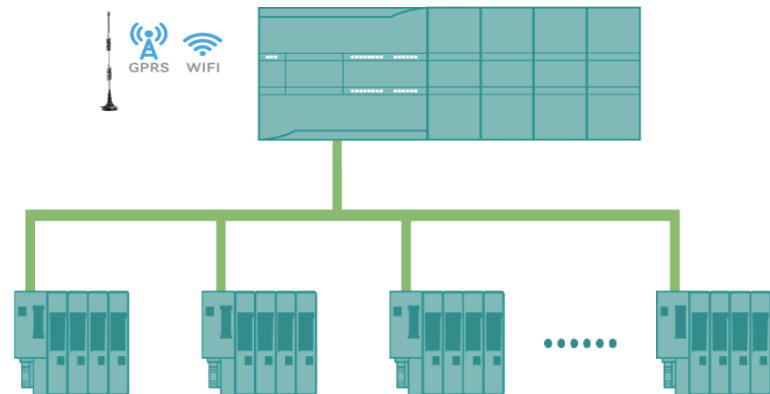
Integration with TIA Portal Ecosystem

Engineers can choose to use TIA Portal for fast and intuitive development and debugging of automation systems according to their project requirements. No need to change programming habits, making it easy to get started quickly and master.



Powerful Expansion Capability

The 1215C CPU can connect to up to 16 I/O slave devices simultaneously, meeting the requirements of distributed control in complex industrial scenarios. It supports real-time data interaction of up to 4096 I/O points, ensuring stability and responsiveness in high-density control tasks. It is compatible with Huceen economical HD 200Smart series, high-performance compact HD 200SP series, intelligent slaves such as the E7 200Smart series, as well as other third-party standard Profinet slave devices.



IoT PLC

By adding IoT extension boards, real-time data collected by the controller can be uploaded to an industrial cloud platform. Massive amounts of real-time data can be gathered from multiple devices. With IoT technology, enterprise managers can remotely monitor and manage production processes anytime, anywhere via mobile devices, improving management efficiency and decision-making timeliness. The H7-1200 series supports the MQTT protocol through the Ethernet port of the main unit, enabling MQTT message transmission and reception with Huceen Industrial Cloud Platform (Hcloud).



Convenient Firmware Updates

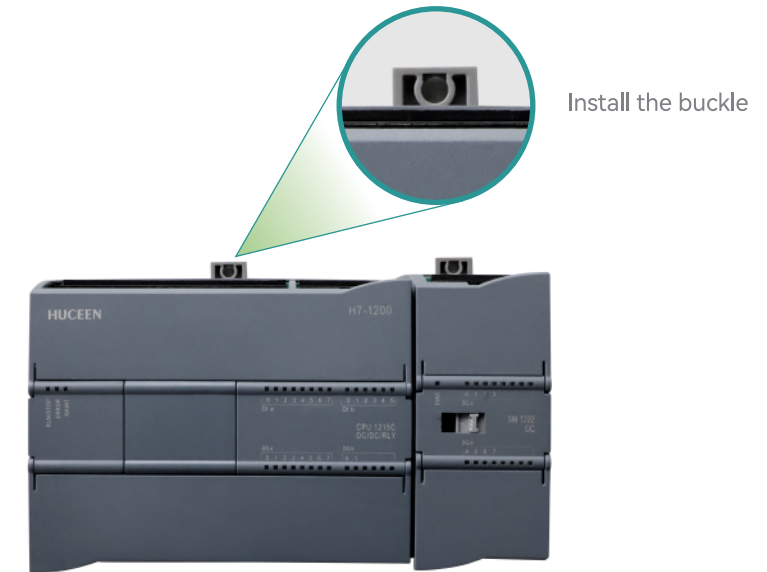
Supports standard SD card program loading, firmware refreshing and storage expansion. No need for dedicated TF cards.



Easy Installation

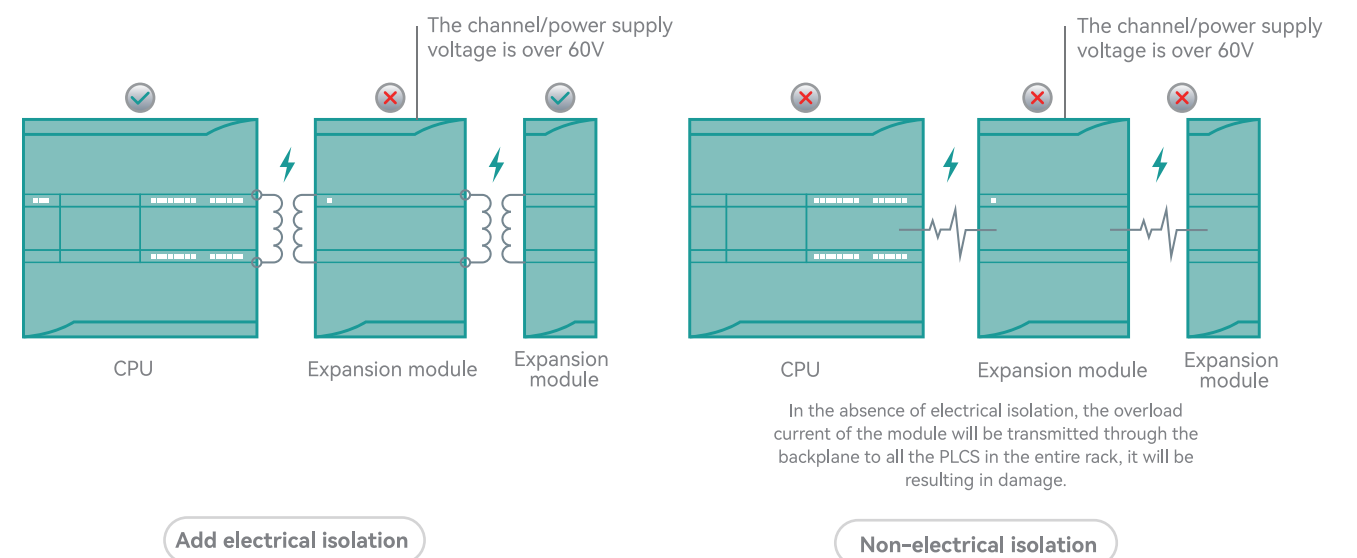
The H7-1200 series comes with built-in mounting clips, allowing easy installation on standard 35mm DIN rails. The PLC can be installed either vertically or horizontally.

All H7-1200 series hardware is equipped with standard 4mm removable quick-connect terminals. Engineers only need to wire once, saving valuable time and reducing wiring errors during project commissioning, debugging, and maintenance.



Electrical Isolation

The H7-1200 series AI/AO modules have increased electrical isolation between the channel detection circuit and the module backplane circuit. In the event of high voltage entering the module channels or power supply, only the detection circuit of the module would be damaged, while the backplane circuit remains unaffected. This ensures that PLC modules on the same rack are protected from high-voltage damage.



1215C CPU

Model	CPU 1215C DC/DC/Relay	
Order No.	H7 215-1HG31-0XB0	
Picture		
Standard		
Dimensions W × H × D (mm)	130×100×75	
Weight:	600 g	
Power Loss, Typ.	12 W	
Available Current (SM and CM Bus)	Max. 1600 mA (5 VDC)	
Available Current (24 VDC)	Max. 400 mA (Sensor Power)	
Digital Input Current Consumption (24 VDC)	4 mA per input point	
CPU Features		
User Memory		
Working	250 KB	
Load	Built-in 4 MB	
Retention	10 KB	
Onboard Digital I/O	14 inputs / 10 outputs	
Onboard Analog I/O	2 inputs / 2 outputs	
Process Image Size	1024 bytes input (I) / 1024 bytes output (Q)	
Bit Memory (M)	8192 bytes	
Temporary (Local) Memory	16 KB for startup and program cycle (including related FBs and FCs) 8 KB for other interrupt events (including FBs and FCs)	
Signal Module Expansion	Up to 8 signal modules	
SB, CB, BB Expansion	Up to 1	
Communication Module Expansion	-	
High-Speed Counters	6 total Single-phase: 3 × 100 kHz, 3 × 30 kHz Quadrature: 3 × 80 kHz, 3 × 20 kHz	
Pulse Output	Not supported	
Pulse Capture Inputs	14	
Timed / Cydic Interrupts	4, with 1 ms accuracy	
Edge Interrupts	12 rising edges and 12 falling edges	
Memory Card	Not supported	
Real-Time Clock Accuracy	±60 s/month	
RTC Retention	Typically 20 days, minimum 12 days at 40°C (maintenance-free super capacitor)	
Performance		
Boolean Operation Speed ^{Note 1}	0.26 μs/instruction	
Word Move Speed ^{Note 1}	0.43 μs/instruction	
Floating-Point Add Speed ^{Note 1}	1.36 μs/instruction	

Note 1: Many variables affect the measurement time. The above performance times apply to this class and the fastest instructions in an error-free program.

Communication	
Ports	2
Type	Ethernet
HMI Devices	4
Programming Device (PG)	1
Connections	• 8 for open user communication (active or passive): TSEND_C, TRCV_C, TCON, TDISCON, TSEND, TRCV • 8 for server GET/PUT (CPU-to-CPU S7 communication) • 8 for client GET/PUT (CPU-to-CPU S7 communication)
Data Transfer Rate	10/100 Mb/s
Isolation (External Signal vs PLC Logic)	Transformer isolation, 1500V AC (short-term event only)
Cable Type	Shielded CAT5e
Power Supply	
Voltage Range	20.4—28.8V DC
Frequency	-
Input Current:	
Surge Current (Max)	
CPU only (24 VDC) Max Load	500 mA
CCPU with all expansions (24 VDC) Max Load	1500 mA
Surge Current (Max)	12 A at 28.8 VDC
Isolation (Input Power vs Logic)	None
Leakage current, AC line to functional ground	-
Hold Time (Power Loss)	10 ms at 24 VDC
Internal Fuse (User Non-Replaceable)	1 A, 60 V, PTC self-resetting
Sensor Power	
Voltage Range	L + - 4 VDC (min)
Rated Output Current (Max)	400 mA (short-circuit protected)
Maximum Ripple (<10 MHz)	Same as input line
Isolation (CPU Logic vs Sensor Power)	None

1215C CPU

Digital Inputs	
Number of Inputs	14
Type	Sink/Source (IEC Class 1 Sink)
Rated Voltage	24 VDC at 4 mA
Permissible Continuous Voltage	Max 35 VDC
Surge Voltage	60 VDC for 1 min
Logic 1 Signal (Min)	15 VDC at 2.5 mA
Logic 0 Signal (Max)	5 VDC at 1 mA
Isolation (Field side vs. Logic side)	500 VAC, 1 min continuous
Isolation group	1
Filter time	0.2, 0.4, 0.8, 1.6, 3.2, 6.4, and 12.8 ms (selectable, 4 per group)
Maximum HSC clock input frequency (Logic 1 level = 15 to 26 VDC)	Single-phase: 100 kHz (Ia.0 to Ia.5) and 30 kHz (Ia.6 to Ib.5) Quadrature phase: 80 kHz (Ia.0 to Ia.5) and 20 kHz (Ia.6 to Ib.5)
Number of simultaneously active inputs	14
Cable length (m)	500 m (shielded); 300 m (unshielded); 50 m (shielded, HSC input)
Digital Outputs	
Number of outputs	10
Type	Relay, dry contact
Voltage range	5 to 30 VDC or 5 to 250 VAC
Logic 1 voltage at max. current	—
Logic 0 voltage with 10 kΩ load	—
Current (max)	2.0 A
Lamp load	30 W DC / 200 W AC
On-state resistance	Max 0.2 Ω (new device)
Leakage current per point	—
Surge current	7 A when contacts closed
Overload protection	None
Isolation (Field side vs. Logic side)	1500 VAC, 1 min (coil-to-contact); None (coil-to-logic)
Isolation resistance	Min 100 MΩ (new device)
Insulation between contacts	750 VAC, 1 min
Isolation group	2
Inductive clamping voltage	—
Switching delay (Qa.0 to Qa.3)	Max 10 ms
Switching delay (Qa.4 to Qb.1)	Max 10 ms
Maximum relay switching frequency	1 Hz
Pulse train output frequency (Qa.0 and Qa.2)	Not recommended
Mechanical lifetime (no load)	10,000,000 make/break cycles
Contact lifetime at rated load	100,000 make/break cycles
RUN-to-STOP behavior	Previous value or replacement (default = 0)
Number of simultaneously active outputs	10
Cable length (m)	500 m (shielded); 150 m (unshielded)

Analog Inputs	
Number of input channels	2
Type	Voltage (single-ended)
Full-scale range	0 to 10 V
Full-scale range (digital value)	0 to 27,648
Overshoot range	10.001 to 11.759 V
Overshoot range (digital value)	27,649 to 32,511
Overflow range	11.760 to 11.852 V
Overflow (digital value)	32,512 to 32,767
Resolution	10-bit
Maximum withstand voltage	60 VDC
Smoothing	None / Weak / Medium / Strong
Noise suppression	10 / 50 / 60 Hz
Input impedance	≥100 kΩ
Isolation (field vs. logic)	None
Accuracy (25 °C / -20 to 60 °C)	0.5% / 1.0% of full scale
Cable length (m)	100 m, shielded twisted pair
Analog Outputs	
Number of outputs	2
Type	Current
Range	0 to 20 mA
Full-scale range (digital value)	0 to 27,648
Maximum voltage/ current rating	60 VDC / 40 mA
Overshoot range	20.01 to 23.52 mA
Overshoot range (digital value)	27,649 to 32,511
Overflow range	On overflow, analog output behavior follows device configuration. For the “Response to CPU STOP” parameter, choose either replacement value or hold previous value.
Overflow range (digital value)	32,512 to 32,767
Resolution	10-bit
Output driving impedance	Max 700 Ω
Isolation (field vs. logic)	None
Accuracy (25°C / -20 to 60°C)	0.5% / 1.0% of full scale
Stabilization time	2 ms
Cable length (m)	100 m, shielded twisted pair

Digital input modules

Model No.	SM 1221 DI 8x24 V DC	SM 1221 DI 16x24 V DC
Order No.	H7 221-1BF32-0XB0	H7 221-1BH32-0XB0
Picture		
Product Description	digital input module DI8 x 24V DC , sinking/sourcing type	digital input module DI16 x 24V DC , sinking/sourcing type
Standard		
Dimensions W x H x D	45x100x75mm	
Power Consumption	1.5W	2.5W
Current Consumption (SM bus)	105mA	130mA
Current Consumption (24V DC)	4mA for each input point used	
Digital input		
Number of Inputs	8	16
Input Type	The sinking type /sourcing type	
Rated Voltage	24V DC at 4mA, Rated Value	
Allowable Continuous Voltage	max. 30VDC	
Surge Voltage(Max)	35V DC, lasting 0.5s	
Logic 1 Signal (Min)	15V DC at 2.5mA	
Logic 0 Signal (Max)	5V DC at 1mA	
Optical Isolation (field side and logic side)	500V AC, lasting 1 min	
Isolation Group	2	4
Filter time	0.2, 0.4, 0.8, 1.6, 3.2, 6.4 and 12.8 ms (optional, 4 inputs form one group)	

Digital output modules

Model No.	SM 1222 DQ 8x24 V DC	SM 1222 DQ 16x24 V DC	SM 1222 DQ 8xRLY	SM 1222 DQ 16xRLY
Order No.	H7 222-1BF32-0XB0	H7 222-1BH32-0XB0	H7 222-1HF32-0XB0	H7 222-1HH32-0XB0
picture				
Product Description	digital output module DQ8 x 24VDC, Transistor	digital output module DQ16 x 24VDC, Transistor	digital output module DQ8 x Relay	digital output module DQ16 x Relay
Standard				
Dimension (W×H×D)	45x100x75			
Power Consumption	1.5W	2.5W	4.5W	8.5W
Current Consumption (SM bus)	120mA	140mA	120mA	135mA
Current Consumption (24V DC)	50mA	100mA	Each relay coil used is 11mA	
Digital Output				
Number of Outputs	8	16	8	16
Output Type	Solid-MOSFET (source type)		Relay, dry contact	
Voltage Range	20.4-28.8V DC		5-30V DC or 5-250V AC	
Logic 1 Signal at Maximum Current	min 20V DC		-	
Logic 0 Signal with 10KΩ Load	max 0.1V DC		-	
Electric Current (Max)	0.5A		2A	
Lamp Load	5W		30W DC/200W AC	
Flood Leakage Current of Each Point	Maximum 10μA		-	
Surge Current	8A, max. lasting 100ms		it is 7A when the contact is closed	
Isolation(field side and logic side)	500V AC, lasting 1 min		1500V AC, lasting 1 min(Coil and contact) ; None(coil and logic side)	
Isolation Group	1		2	4
Current of Each Public Terminal (Max)	4A	8A	10A	
Switching Delay	from the disconnection to connection(Max): 50μs; from the connection to disconnection(Max): 200μs		Up to 10ms	
Mechanical Lifetime (non-responsible)	-		10,000,000 break/close cycles	
Lifetime under Rated Load	-		100,000 break/close cycles	
Behavior at RUN-STOP	previous value or replacement value (default is 0)			

Digital input/output modules

Model No.	SM 1223 DI 8x24 V DC DQ 8x24 V DC	SM 1223 DI 16x24 V DC DQ 16x24 V DC	SM 1223 DI 8x24 V DC DQ 8xRLY	SM 1223 DI 16x24 V DC DQ 16xRLY
Order No.	H7 223-1BH32-0XB0	H7 223-1BL32-0XB0	H7 223-1PH32-0XB0	H7 223-1PL32-0XB0
Picture				
Product Description	digital input & output module DI8 x 24V DC sinking/sourcing type & DQ8 x 24V DC, Transistor output	digital input & output module DI16 x 24V DC sinking/sourcing type & DQ16 x 24V DC, Transistor output	digital input & output module DI8 x 24V DC sinking/sourcing type & DQ8 x relay, relay output	digital input & output module DI16 x 24V DC sinking/sourcing type & DQ16 x relay, relay output
Standard				
Dimension (W×H×D)	45x100x75	70x100x75	45x100x75	70x100x75
Power Consumption	2.5W	4.5W	5.5W	10W
Current Consumption (SM bus)	145mA	185mA	145mA	180mA
Current Consumption (24V DC)	4mA for each input point used		4mA for each input point used, each relay coil used is 11mA	
Digital Input				
Number of Inputs	8	16	8	16
Input Type	The sinking /sourcing type			
Surge Voltage	35V DC, lasting 0.5s			
Logic 1 Signal (Min)	15V DC at 2.5mA			
Logic 0 Signal (Max)	5V DC at 1mA			
Optical Isolation (field side and logic side)	500 V AC, lasting 1 min			
Isolation Group	2			
Filter Time	0.2, 0.4, 0.8, 1.6, 3.2, 6.4 and 12.8 ms (optional, 4 inputs form one group)			
Digital Output				
Number of Outputs	8	16	8	16
Output Type	Solid-MOSFET (source type)		Relay, dry contact	
Voltage Range	20.4~28.8V DC		5-30V DC or 5-250V AC	
Logic 1 Signal at Maximum Current	min 20V DC		-	
Logic 0 Signal with 10KΩ Load	max 0.1V DC		-	
Electric Current (Max)	0.5A		2A	
Lamp Load	5W		30W DC/200W AC	
Flood Leakage Current of Each Point	max 10μA		-	
Surge Current	8A, max. lasting 100ms		it is 7A when the contact is closed	
Isolation (field side and logic side)	500V AC, lasting 1 min		1500V AC, lasting 1 min(Coil and contact) ; None(coil and logic side)	
Isolation Group	1		2	4
Current of Each Public Terminal (Max)	4A	8A	10A	8A
Switching Delay	from the disconnection to connection(Max): 50μs; from the connection to disconnection(Max): 200μs		Up to 10ms	
Mechanical Lifetime (non-responsible)	-		10,000,000 break/close cycles	
Lifetime under Rated Load	-		100,000 break/close cycles	
Behavior at RUN-STOP	previous value or replacement value (default is 0)			

Analog input modules

Model No.	SM1231 AI4 x 13 Bits	SM1231 AI8 x 13 Bits	SM1231 AI4 x 16 Bits
Order No.	H7 231-4HD32-0XB0	H7 231-4HF32-0XB0	H7 231-5ND32-0XB0
Picture			
Product Description	Analog input module AI4 x 13 bits	Analog input module AI8 x 13 bits	Analog input module AI4 x 16 bits
Standard			
Dimension (W×H×D)	45x100x75mm		
Power Consumption	2.2W	2.3W	2.0W
Current Consumption (SM bus)	80mA	90mA	80mA
Current Consumption (24V DC)	45mA		65mA
Analog Input			
Number of Inputs	4	8	4
Input Type	voltage or current (differential): 2 can be selected as a group range		Voltage or current (differential)
Input Range	±10V, ±5V, ±2.5V or 0—20mA		±10V, ±5V, ±2.5V, ±1.25V, 0—20mA or 4—20 mA
Full scale Range (Data Word)	-27648—27648		
Overshoot/undershoot Range (Data Word)	Voltage: 32,511—27,649/-27,649 — -32,512 Current: 32,511—27,649/0 — -4,864		Voltage: 32,511—27,649/-27,649 — -32,512 Current 0-20mA: 32,511—27,649/0 — -4,864; 4—20mA: 32511—27,649/-1 — -4,864
Overflow/Underflow (Data Word)	Voltage: 32,767—32,512/-32,513 — -32,768 Current: 32,767—32,512/-4865 — -32,768		Voltage: 32,767—32,512/-32,513 — -32,768 Current 0—20mA: 32,767—32,512/-4,865 — -32,768; 4—20mA: 32,767—32,512/-4,865 — -32,768
Data format	12 bits + signal bits		15 bits + signal bits
Max. Voltage/Current Resistance	±60V/±40mA		
Smoothness	None, weak, medium or strong		
Noise Supression	400、60、50 or 10Hz		
Isolation(field side and logic side)	None		
Precision(25°C/0-55°C)	full range ±0.1%/±0.2%		full range ±0.1%/±0.3%
Working Signal Range	signal plus common mode voltage must be <+12V and >-12V		
Diagnosis: Overflow/underflow	Support		
Circuit Break(Current Mode Only)	not applicable		4—20mA range only (If input is below -4,164; 1.0mA)

Analog output modules

Model No.	SM1232 AQ2 x 14 Bits		SM1232 AQ4 x 14 Bits
Order No.	H7 232-4HB32-0XB0		H7 232-4HB32-0XB0
Picture			
Product Description	analog output module AQ2 x 14 bits		analog output module AQ4 x 14 bits
Standard			
Dimension (W×H×D)	45x100x75mm		
Power Consumption	1.5W		
Current Consumption (SM bus)	80mA		
Current Consumption (24V DC)	45mA (no load)		
Analog Output			
Number of Outputs	2		4
Output Type	Voltage or current		
Output Range			
Current Output	0—20mA or 4—20mA		
Voltage Output	±10 V		
Data Word Format			
Voltage	-27648—27648		
Current	0-27648		
Resolution			
Voltage Mode	14 bits		
Current Mode	13 bits		
Max. Voltage Resistance	±60 V		
Isolation (field side and logic side)	500VAC		
Precision (25°C/0-55°C)	full range ±0.3% /±0.6%		
Stability Time	Voltage: 300μS(R), 750μS(1 uF); Current: 600μS(1 mH), 2 ms(10 mH)		
Load Impedance	Voltage: ≥ 1000 Ω; Current: ≤ 600 Ω		
Output Status in STOP Mode	previous value or replacement value (default is 0)		
Diagnosis			
Overflow/underflow	Support		
Voltage Mode: short circuit to ground	Support		
Current Mode: Circuit break mode	Support		

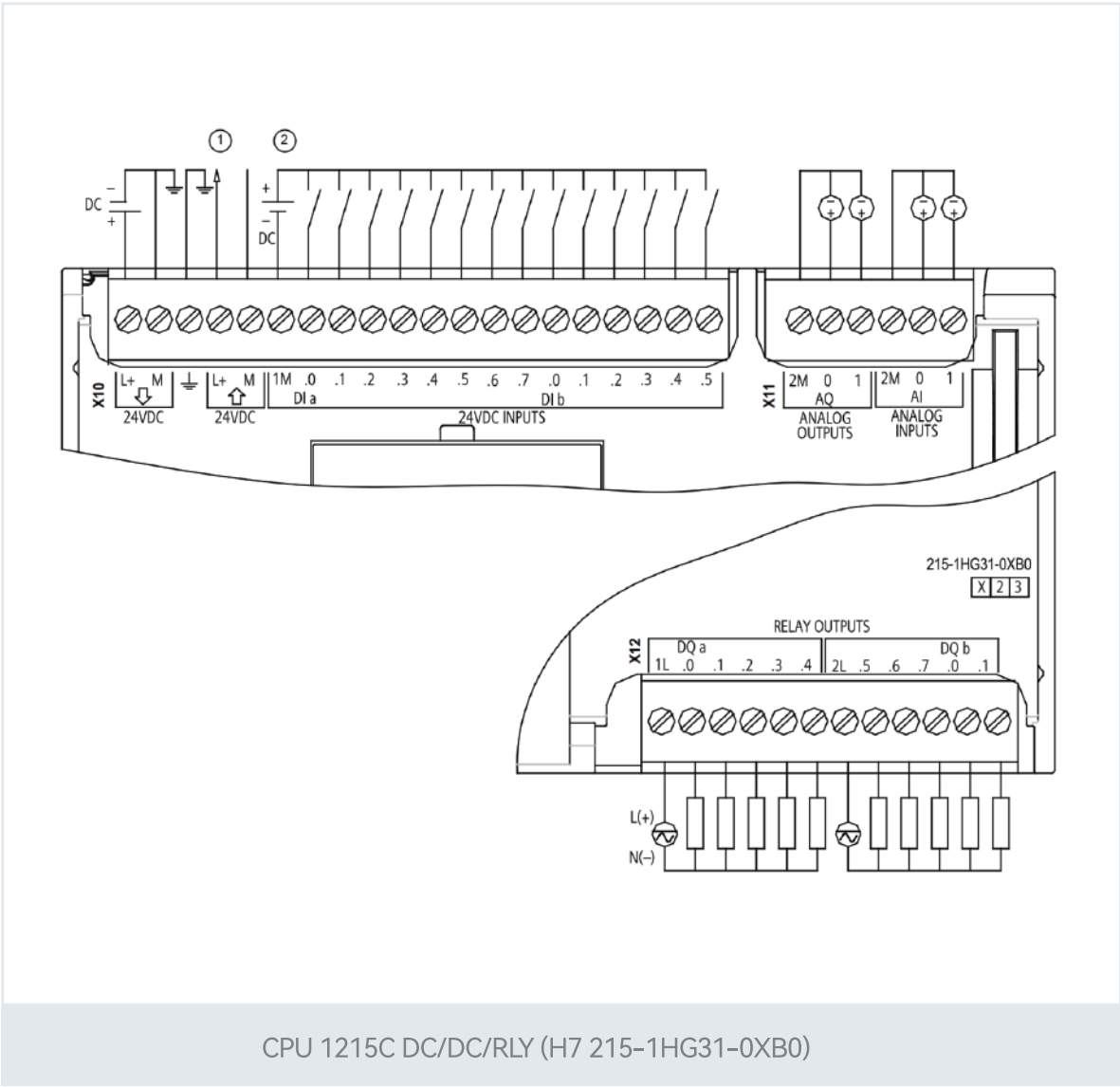
Analog input/output modules

Model No.	SM1234 AI4 x 13 Bits & AQ2 x 14 Bits		
Order No.	H7 234-4HE32-0XB0		
Picture			
Product Description	Analog input & output module AI4 + AQ2, Input: 13 bits		
Standard			
Dimension (W×H×D)	45x100x75mm		
Power Consumption	2W		
Current Consumption (SM bus)	80mA		
Current Consumption (24V DC)	60mA(no load)		
Analog Input			
Number of Inputs	4		
Input Type	voltage or current (differential): 2 can be selected as a group range		
Input Range	±10V, ±5V, ±2.5V, 0—20mA or 4—20mA		
Full scale Range (Data Word)	-27648-27648		
Overshoot/undershoot Range (Data Word)	Voltage: 32,511—27,649/-27,649 — -32,512; Current: 32,511—27,649/0 — -4864		
Overflow/Underflow (Data Word)	Voltage: 32,767—32,512/-32,513 — -32,768; Current: 32,767—32,512/-4865 — -32,768		
Resolution	12 bits + signal bits		
Max Voltage/Current Resistance	±60V/±40mA		
Precision (25°C/0-55°C)	full range ±0.1 %/±0.2 %		
Analog to digital Conversion Time	625μs (400 Hz inhibited)		
Working Signal Range	signal plus common mode voltage must be <+12V and >-12V		
Common mode Rejection	40dB, DC—60Hz		
Analog Output			
Number of Outputs	2		
Output Type	Voltage or current	Isolation (field side and logic side)	500VAC
Output Range	±10V, 0—20mA or 4—20mA	Precision (25°C/0-55°C)	full range ±0.3% /±0.6%
Current Output	0—20mA or 4—20mA	Stability Time	Voltage: 300μS(R), 750μS(1 uF); Current: 600μS(1 mH), 2 ms(10 mH)
Voltage Output	±10 V	Load Impedance	Voltage: ≥ 1000 Ω; Current: ≤ 600 Ω
Data Word Format		Output Status in STOP Mode	previous value or replacement value (default is 0)
Voltage	-27648-27648	Diagnosis	
Current	0-27648	Overflow/underflow	Support
Resolution		Voltage Mode: short circuit to ground	Support
Voltage Mode	14 bits	Current Mode: circuit break mode	Support
Current Mode	13 bits		
Max Voltage Resistance	±60 V		

Temperature modules

Model No.	SM1231 AI4 x 16 Bits TC	SM1231 AI8 x 16 Bits TC	SM1231 AI4 x 16 Bits RTD	SM1231 AI8 x 16 Bits RTD
Order No.	H7 231-5QD32-0XB0	H7 231-5QF32-0XB0	H7 231-5PD32-0XB0	H7 231-5PF32-0XB0
Picture				
Product Description	Analog input module AI4 x TC	Analog input module AI8 x TC	Analog input module AI4 x RTD	Analog input module AI8 x RTD
Standard				
Dimension (W×H×D)	45x100x75			70x100x75
Power Consumption	1.5W			
Current Consumption (SM bus)	80mA			90mA
Current Consumption (24V DC)	40mA			
Analog Input				
Number of Inputs	4	8	4	8
Input Type	TC		RTD and Resistance	
Type	J, K, T, E, R, S, B, N, C, TXK/XK (L) , Voltage Range: +/-80 mv		Platinum (Pt), copper (Cu), nickel (Ni), LG-Ni or resistance	
Resolution				
Temperature	0.1 °C/0.1 °f			
Resistance	15 bits + signal bits			
Voltage Resistance	Max. ±60V			
Isolation	500VAC			
Noise Supression	85dB at 10Hz/50Hz/60Hz/400Hz			
Channel to channel Isolation	120V AC		None	
Common mode Rejection	> 120dB at 120VAC		>120 dB	
Repeatability	±0.05 % FS			
The cold end temperature error	±1.5 °C		-	
Cable Resistance	max. 100 Ω		20 Ω, 2.7 Ω, for 10 pcs Ω RTD	
Diagnosis: Overflow/underflow	Support			
Circuit Break	Support			

Appendix1: H7-1200 CPU Wiring diagram



Appendix2: H7-1200 Wiring diagram

Article No.: H7-221-1BF32-0XB0
Model numbe: SM 1221 DI 8x24 V DC

Article No.: H7-221-1BH32-0XB0
Model numbe: SM 1221 DI 16x24 V DC

Article No.: H7-222-1BF32-0XB0
Model numbe: SM 1222 DQ 8x24 V DC

Article No.: H7-222-1BH32-0XB0
Model numbe: SM 1222 DQ 16x24 V DC

Article No.: H7-222-1HF32-0XB0
Model numbe: SM 1222 DQ 8xRLY

Article No.: H7-222-1HH32-0XB0
Model numbe: SM 1222 DQ 16xRLY

Article No.: H7-233-1BH32-0XB0
Model numbe: SM 1223 DI 8x24 V DC DQ 8x24 V DC

Article No.: H7-233-1BL32-0XB0
Model numbe: SM 1223 DI 16x24 V DC DQ 16x24 V DC

Article No.: H7-233-1PH32-0XB0
Model numbe: SM 1223 DI 8x24 V DC DQ 8xRLY

Article No.: H7-233-1PL32-0XB0
Model numbe: SM 1223 DI 16x24 V DC DQ 16xRLY

Appendix2: H7-1200 Wiring diagram

Article No.: H7-231-4HD32-0XB0
Model numbe: SM 1231 AI 4x13 bit

Article No.: H7-231-4HF32-0XB0
Model numbe: SM 1231 AI 8x13 bit

Article No.: H7-231-5ND32-0XB0
Model numbe: SM 1231 AI 4x16 bit

Article No.: H7-232-4HB32-0XB0
Model numbe: SM 1232 AQ 2x14 bit

Article No.: H7-232-4HD32-0XB0
Model numbe: SM 1232 AQ 4x14 bit

Article No.: H7-234-4HE32-0XB0
Model numbe: SM 1234 AI 4x13 bit

Article No.: H7-231-5QD32-0XB0
Model numbe: SM 1231 AI 4x16 bit Thermocouple

Article No.: H7-231-5QF32-0XB0
Model numbe: SM 1231 AI 8x16 bit Thermocouple

Article No.: H7-231-5PD32-0XB0
Model numbe: SM 1231 AI 4x16 bit Thermocouple

Article No.: H7-231-5PF32-0XB0
Model numbe: SM 1231 AI 8x16 bit Thermocouple

Appendix3: H7-1200 Ordering data

H7-1200 CPU

Parameters		Article No.
CPU 1215C DC/DC/RLY	CPU 1215C, DC/DC/RLY, 14DI/10DO, 2AI/2AO, 2*RJ45	H7 215-1HG31-0XB0

H7-1200 Digital Module

Parameters		Article No.
SM1221	Digital input module DI8 x 24VDC , Drain type/source type	H7 221-1BF32-0XB0
SM1221	Digital input module DI16 x 24VDC , Drain type/source type	H7 221-1BH32-0XB0
SM1222	Digital output module DQ8x Relay type	H7 222-1HF32-0XB0
SM1222	Digital output module DQ8 x 24VDC, Transistor type	H7 222-1BF32-0XB0
SM1222	Digital output module DQ16x Relay type	H7 222-1HH32-0XB0
SM1222	Digital output module DQ16 x 24VDC, Transistor type	H7 222-1BH32-0XB0
SM1223	Digital input/output module DI8 x 24VDC Drain type/source type and DQ8 x Electric Relay, Electric Relay output	H7 223-1PH32-0XB0
SM1223	Digital input/output module DI8 x 24VDC Drain type/source type and DQ8 x 24VDC, Transistor type output	H7 223-1BH32-0XB0
SM1223	Digital input/output module DI16 x 24VDC Drain type/source type and DQ16 x Electric Relay, Electric Relay output	H7 223-1PL32-0XB0
SM1223	Digital input/output module DI16 x 24VDC Drain type/source type and DQ16 x 24VDC, Transistor type output	H7 223-1BL32-0XB0

H7-1200 Analog Module

Parameters		Article No.
SM1231	Analog input module AI4 x 13 bit, Support 0-20mA/4-20mA/±2.5V/±5V/±10V type	H7 231-4HD32-0XB0
SM1231	Analog input module AI8 x 13 bit, Support 0-20mA/4-20mA/±2.5V/±5V/±10V type	H7 231-4HF32-0XB0
SM1231	Analog input module AI4 x 16 bit, Support 0-20mA/4-20mA/±2.5V/±5V/±10V type	H7 231-5ND32-0XB0
SM1232	Analog output module AQ2 x 14 bit, Support 0-20mA/4-20mA/±10V type	H7 232-4HB32-0XB0
SM1232	Analog output module AQ4 x 14 bit, Support 0-20mA/4-20mA/±10V type	H7 232-4HD32-0XB0
SM1234	Analog I/O module AI4 + AQ2, input:13bit,Support 0-20mA/4-20mA/±2.5V/±5V/±10V type	H7 234-4HE32-0XB0

H7-1200 Temperature Module

Parameters		Article No.
SM1231	Analog input module AI4 x RTD Hot resistance	H7 231-5PD32-0XB0
SM1231	Analog input module AI4 x TC Thermocouple	H7 231-5QD32-0XB0
SM1231	Analog input module AI8 x RTD Hot resistance	H7 231-5PF32-0XB0
SM1231	Analog input module AI8 x TC Thermocouple	H7 231-5QF32-0XB0

Service and Warranty

The stage behind is the key to success, and after-sales service is the guarantee of life



3 years warranty

Within 3 years from the date of delivery, we can offer the unconditional free maintenance once occurring product quality problem.



Lifetime maintenance

We offer lifelong maintenance and repair services for the users of HUCEEN products