

HPSI-0406-D1L1H3-A1

HPSI-0810-D1L1H3-A1

HPSI-1216-D1L3H9-A1

HPSA-0410-190-D1L1H3-A1

HPSA-0410-240-D1L1H3-A1

HPSA-1216-240-D1L1H3-A1

HPS0-04-D1L1-A1*

HPS0-06-D1L1-A1*

HPS0-08-D1L1-A1*

HPS0-10-D1L1-A1*

HPS0-12-D1L3-A1*

HPS0-14-D1L3-A1*

HPS0-16-D1L3-A1*

HPM0-04-D1L1H0-A1*

HPM0-06-D1L1H0-A1*

HPM0-08-D1L1H3-A1*

HPM0-10-D1L1H3-A1*

HPM0-12-D1L3H9-A1*

HPM0-14-D1L3H9-A1*

HPM0-16-D1L3H9-A1*

HPM0-18-D1L3H0-A1

HPM0-22-D1L3H0-A1

HPM0-26-D1L3H0-A1

HPM0-30-D1L3H0-A1

TEPELNÁ ČERPADLA

VZDUCH-VODA

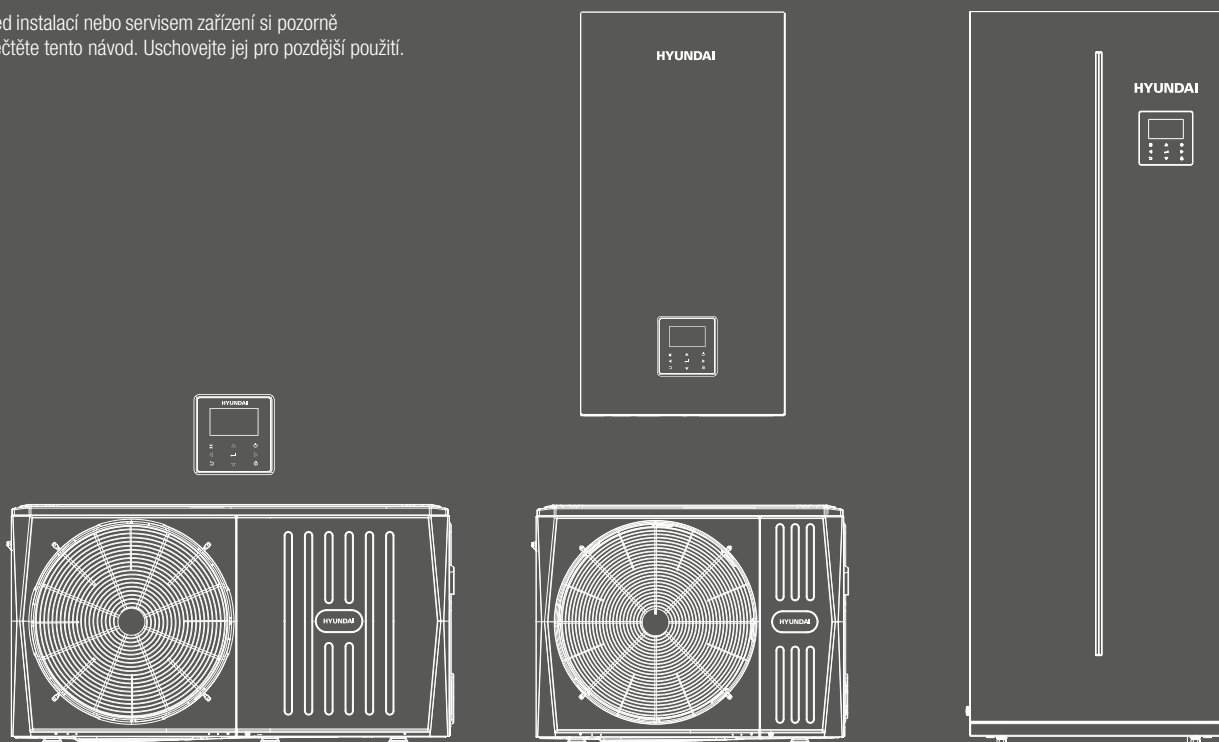
SPLIT R32

MONOBLOK R32



UPOZORNĚNÍ:

Před instalací nebo servisem zařízení si pozorně přečtěte tento návod. Uchovejte jej pro pozdější použití.



1 MODBUS MAPPING TABLE

1.1 Modbus Port Communication Specification

Port: RS-485; the wired controller XYE is the communication port for connecting with the hydraulic module.

H1 and H2 are the Modbus communication ports.

Communication address: Host computer and wired controller can only do one-to-one connection, and wired controller is slave unit. The communication address of host computer and wired controller is consistent with the address of 17.2 HMI ADDRESS FOR BMS (FOR SERVICEMAN).

Baud rate: 9600.

Number of digits: Eight

Verification: none

Stop Bit: 1 bit

Communication protocol: Modbus RTU (Modbus ASCII is not supported)

1.1.1 Mapping of registers in the wired controller

The following addresses can use 03H, 06H (write single register), 10H (write multiple register)

Register address	Description	Remarks	
0 (PLC:40001)	Power on or off.	BIT15	Reserved
		BIT14	Reserved
		BIT13	Reserved
		BIT12	Reserved
		BIT11	Reserved
		BIT10	Reserved
		BIT9	Reserved
		BIT8	Reserved
		BIT7	Reserved
		BIT6	Reserved
		BIT5	Reserved
		BIT4	Reserved
		BIT3	0: power off floor heating; 1: power on floor heating;(zone 2) (water flow temperature control)
		BIT2	0: DHW(T5S) power off; 1: DHW(T5S) power on
		BIT1	0: power off floor heating; 1: power on floor heating;(zone 1) (water flow temperature control)
		BIT0	0: power off air conditioner; 1: power on air conditioner; (zone 1) (room temperature control)
1 (PLC: 40002)	Setting the mode	1: Auto; 2: Cool; 3: Heat; Others: Invalid	
2 (PLC: 40003)	Setting water water temperature T1S	Bit8-Bit15	Water temperature T1s is corresponding to the floor heating.(zone 2)
		Bit0-Bit7	Water temperature T1s is corresponding to the floor heating.(zone 1)
3 (PLC: 40004)	Setting air temperature Ts	The room temperature range is between 17°C and 30°C, and is valid when there is Ta. Portocol value=actual value*2	
4 (PLC: 40005)	T5s	The water tank temperature range is between 20°C and 60°C.	
5 (PLC: 40006)	Function Setting	BIT15	Reserved
		BIT14	Reserved
		BIT13	1: climate curve setting is valid; 0: climate curve setting is invalid. (zone2)
		BIT12	1: climate curve setting is valid; 0: climate curve setting is invalid. (zone1)
		BIT11	DHW pump's running constant-temperature water recycling
		BIT10	ECO mode
		BIT9	Reserved
		BIT8	Holiday home (the status can only be read, not changed)
		BIT7	0: Silent mode level1; 1: Silent mode level2
		BIT6	Silent mode
		BIT5	Holiday away (the status can only be read, but cannot be changed)
		BIT4	Disinfect
		BIT3	Reserved
		BIT2	Reserved
		BIT1	Reserved
		BIT0	Reserved
6 (PLC: 40007)	Curve selection	Bit8-Bit15	Climate Curve 1-9(zone 2)
		Bit0-Bit7	Climate Curve 1-9(zone 1)

7 (PLC: 40008)	Forced water heating	0: Invalid 1: Forced on 2: Forced off	TBH is the electric water tank heater.
8 (PLC: 40009)	Forced TBH		IBH1 and 2 are the hydraulic module's rear electric heater.
9 (PLC: 40010)	Forced IBH1		IBH1 and 2 can be activated together. TBH cannot be activated together with IBH1 and IBH2.
10 (PLC: 40011)	t_SG_MAX	0-24 Hours	
11 (PLC: 40012)	T1S	Water temperature T1S is corresponding to the floor heating.(zone 1)	
12 (PLC: 40013)	T1S	Water temperature T1S is corresponding to the floor heating.(zone 2)	
13 (PLC: 40014)	t_ANTILOCK	Default setting: 5, range: 0~60 S(Available in Sphera A)	
Leaving water temperature T1s setting range instruction: In cooling mode, T1S low temp setting range is 5~25°C;T1S high temp setting range is 18~25°C. In heating mode, T1S low temp setting range is 25~55°C;T1S high temp setting range is 35~65°C.			

1.1.2 When the wired controller is connected to the hydraulic module, the parameters of the whole unit can be checked:

The following address table can only use 03H function code(Read register).

Whole unit parameter mapping address table

1) Running parameters		
Register address	Description	Remarks
100(PLC: 40101)	Operating frequency	Compressor operating frequency in Hz
101(PLC: 40102)	Operating Mode	Outdoor unit's actual operating mode, 2: cooling, 3: heating, 0: off
102(PLC: 40103)	Fan Speed	Fan speed, in r/min
103(PLC: 40104)	PMV openness	Openness of the outdoor unit's electronic expansion valve in P
104(PLC: 40105)	Water inlet temperature	TW_in, unit: °C
105(PLC: 40106)	Water outlet temperature	TW_out, unit: °C
106(PLC: 40107)	T3 Temperature	Condenser temperature, unit: °C
107(PLC: 40108)	T4 Temperature	Outdoor ambient temperature unit: °C
108(PLC: 40109)	Discharge temperature	Compressor discharge temperature Tp unit: °C
109(PLC: 40110)	Suction temperature	Compressor suction temperature Th, unit: °C
110(PLC: 40111)	T1	System total water outlet temperature (behind the auxiliary heater), unit: °C
111(PLC: 40112)	Tw2	Zone 2 water flow temperature, unit: °C
112(PLC: 40113)	T2	Refrigerant liquid side temperature, unit: °C
113(PLC: 40114)	T2B	Refrigerant gas side temperature, unit: °C
114(PLC: 40115)	Ta	Room temperature, unit: °C
115(PLC: 40116)	T5	Water tank temperature, unit: °C
116(PLC: 40117)	Pressure 1	Outdoor unit high pressure value, unit: kPa
117(PLC: 40118)	Pressure 2	Outdoor unit low pressure value, unit: kPa
118(PLC: 40119)	Outdoor unit current	Outdoor unit operating current, unit: A
119(PLC: 40120)	Outdoor unit voltage	Outdoor unit voltage, unit: V
120(PLC: 40121)	Tbt1	Tbt1, unit: °C
121(PLC: 40122)	Tbt2	Tbt2, unit: °C
122(PLC: 40123)	Compressor operation time	Compressor operating time in hour
123(PLC: 40124)	Unit capacity	0702 for 200 register is reserved. When it is 071x, data 4-30 means 4-30kW
124(PLC: 40125)	Current fault	Check the code table for detailed fault codes
125(PLC: 40126)	Fault 1	Check the code table for detailed fault codes.
126(PLC: 40127)	Fault 2	
127(PLC: 40128)	Fault 3	

128(PLC: 40129)	Status bit 1	BIT15	Request to send operation parameter, 1: request; 0: not request
		BIT14	Request to send software version, 1: request; 0: not request
		BIT13	Request to send SN code, 1: request; 0: not request
		BIT12	Reserved
		BIT11	EUV 1: free electricity; 0: judge by SG's signal
		BIT10	SG 1: normal electricity; 0: high price electricity (judge when EUV is 0)
		BIT9	Anti-freezing operation for water tank
		BIT8	Solar energy signal input
		BIT7	Cooling mode set by room thermostat
		BIT6	Heating mode set by room thermostat
		BIT5	Outdoor unit test mode mark
		BIT4	Remote On/Off (1: d8)
		BIT3	Oil return
		BIT2	Anti-freezing
		BIT1	Defrosting
		BIT0	Reserved
129(PLC: 40130)	Load output	BIT15	DEFROST
		BIT14	Auxiliary heat source
		BIT13	RUN
		BIT12	ALARM
		BIT11	Solar water pump
		BIT10	HEAT4
		BIT9	SV3
		BIT8	Mixed water pump P_c
		BIT7	Water return water P_d
		BIT6	External water pump P_o
		BIT5	SV2
		BIT4	SV1
		BIT3	Water pump PUMP_I
		BIT2	Electric heater TBH
		BIT1	Electric heater IBH2
		BIT0	Electric heater IBH1
130(PLC: 40131)	Software version	1~99 is the software version of hydronic module	
131(PLC: 40132)	Wired controller version No.	1~99 is the wired controller's version number.	
132(PLC: 40133)	Unit target frequency	Hz	
133(PLC: 40134)	DC bus current	Unit: A	
134(PLC: 40135)	DC bus voltage	The actual value/10, unit: V	
135(PLC: 40136)	TF module temperature	Feedback on outdoor unit, unit: °C	
136(PLC: 40137)	Climate curve T1S calculated value 1	The corresponding calculated T1S of zone 1	
137(PLC: 40138)	Climate curve T1S calculated value 2	The corresponding calculated T1S of zone 2	
138(PLC: 40139)	Water flow	The actual value*100, unit: m ³ /H	
139(PLC: 40140)	Limit scheme of outdoor unit current	Scheme value	
140(PLC: 40141)	Ability of Hydraulic module	The actual value*100, unit: kW	
141(PLC: 40142)	Tsolar	Tsolar	
142(PLC: 40143)	Quantity of units in parallel	BIT1-BIT15	Respectively represent the online status of slaves unit 1-15
		BIT0	Reserved

143(PLC: 40144)	Higher bits for electricity consumption	
144(PLC: 40145)	Lower bits for electricity consumption	
145(PLC: 40146)	Higher bits for power output	
146(PLC: 40147)	Lower bits for power output	
148(PLC40149)	Real-time heating capacity	Actual value*100
149(PLC40150)	Real-time renewable heating capacity	Actual value*100
150(PLC40151)	Real-time heating power consumption	Actual value*100
151(PLC40152)	Real-time heating COP	Actual value*100
152(PLC40153)	Higher bits for cumulative system heating energy	System means cascade system
153(PLC40154)	Lower bits for cumulative system heating energy	System means cascade system
154(PLC40155)	Higher bits for cumulative system renewable heating energy	System means cascade system
155(PLC40156)	Lower bits for cumulative system renewable heating energy	System means cascade system
156(PLC40157)	Higher bits for cumulative system power consumption	System means cascade system
157(PLC40158)	Lower bits for cumulative system power consumption	System means cascade system
158(PLC40159)	Higher bits for cumulative heating energy	
159(PLC40160)	Lower bits for cumulative heating energy	
160(PLC40161)	Higher bits for cumulative renewable heating energy	
161(PLC40162)	Lower bits for cumulative renewable heating energy	
162(PLC40163)	Higher bits for cumulative power consumption for heating	
163(PLC40164)	Lower bits for cumulative power consumption for heating	
164(PLC40165)	Cumulative heating efficiency ratio	Actual value*100
165(PLC40166)	Higher bits for cumulative cooling energy	
166(PLC40167)	Lower bits for cumulative cooling energy	
167(PLC40168)	Higher bits for cumulative renewable cooling energy	
168(PLC40169)	Lower bits for cumulative renewable cooling energy	
169(PLC40170)	Higher bits for cumulative power consumption for cooling	
170(PLC40171)	Lower bits for cumulative power consumption for cooling	

171(PLC40172)	Cumulative cooling efficiency ratio	Actual value*100
172(PLC40173)	Higher bits for cumulative DHW heating energy	
173(PLC40174)	Lower bits for cumulative DHW heating energy	
174(PLC40175)	Higher bits for cumulative DHW heating renewable energy	
175(PLC40176)	Lower bits for cumulative DHW heating renewable energy	
176(PLC40177)	Higher bits for cumulative power consumption for DHW heating	
177(PLC40178)	Lower bits for cumulative power consumption for DHW heating	
178(PLC40179)	Cumulative DHW heating COP	Actual value*100
179(PLC40180)	Real-time cooling capacity	Actual value*100
180(PLC40181)	Real-time renewable cooling capacity	Actual value*100
181(PLC40182)	Real-time cooling power consumption	Actual value*100
182(PLC40183)	Real-time cooling EER	Actual value*100
183(PLC40184)	Real-time DHW heating capacity	Actual value*100
184(PLC40185)	Real-time renewable DHW heating capacity	Actual value*100
185(PLC40186)	Real-time DHW heating power consumption	Actual value*100
186(PLC40187)	Real-time DHW heating COP	Actual value*100
Note : 1. When Tw2 unavailable, "25" would display in upper unit address 113. 2. When T2B unavailable, the wired controller would display"--" and "25" would display in upper unit address 113. 3. When Ta unavailable, "25" would display in upper unit address 114. 4. When E series without Tbt1、Tbt2,the wired controller would display"--" and "0" would display in upper unit addresses 120 and 121.		

The following register address 200-208 can only use 03H(Read register) function code. Register address 209 and follows can use 03H, 06H (write single register), 10H (write multiple register).

2) Parameter setting		
Register address	Description	Remarks
200(PLC: 40201)	Home appliance type	The upper 8 bits are the types of home appliances: Air to water heat pump: 0x07 The middle 4 bits are product codes: 0x1* The lower 4 bits are sub-type: R32: 0x*2
201(PLC: 40202)	Temperature upper limit of T1S cooling	Lower 8 bits are for zone 1. higher 8 bits are for zone 2
202(PLC: 40203)	Temperature lower limit of T1S cooling	Lower 8 bits are for zone 1. higher 8 bits are for zone 2
203(PLC: 40204)	Temperature upper limit of T1S heating	Lower 8 bits are for zone 1. higher 8 bits are for zone 2
204(PLC: 40205)	Temperature lower limit of T1S heating	Lower 8 bits are for zone 1. higher 8 bits are for zone 2
205(PLC: 40206)	Temperature upper limit of TS setting	Protocol value = actual value * 2
206(PLC: 40207)	Temperature lower limit of TS setting	Protocol value = actual value * 2
207(PLC: 40208)	Temperature upper limit of water heating	
208(PLC: 40209)	Temperature lower limit of water heating	
209(PLC: 40210)	PUMP RUNNING TIME	DHW PUMP water return running time. It is five minutes by default and can be adjusted between 5 and 120 min at an interval of 1 min.
210(PLC: 40211)	Parameter setting 1	BIT15 Enable water heating BIT14 Supports water tank electric heater TBH(Read-only) BIT13 Supports disinfection BIT12 DHW PUMP, 1: supported; 0: not supported BIT11 Reserved BIT10 DHW pump is valid in disinfection mode BIT9 Enable cooling BIT8 T1S cooling high/low temperature settings(Read-only) BIT7 Enable heating BIT6 T1S heating high/low temperature settings(Read-only) BIT5 PUMPI silent mode, 1; valid, 0: invalid BIT4 Supports room temperature Sensor Ta BIT3 Supports room thermostat BIT2 Room thermostat BIT1 Dual Room Thermostat, 0: not supported;1: supported BIT0 0: room cooling/heating first, 1: water heating first

211(PLC: 40212)	Parameter setting 2	BIT15	ACS(Double water tank control) 1: Yes 0: No (read only)
		BIT14	M1M2 is used for AHS control 1: Yes 0: No
		BIT13	RT-Ta_PCNE(enable Temperature Collection Kit) 1: Yes 0: No
		BIT12	Tbt2 sensor is valid 1: Yes 0: No
		BIT11	Piping length selection 1: >10m 0: <10m
		BIT10	Solar energy input port 1: CN18 0: CN11
		BIT9	Solar energy kit enable 1: Yes 0: No
		BIT8	Define the port, 0=remote ON/OFF; 1=DHW heater
		BIT7	Smart grid, 0=NON; 1=YES
		BIT6	Tw2 sensor enable 0: None 1: Yes
		BIT5	Cooling high/low temperature setting T1S2 for Zone 2 (read only)
		BIT4	Heating high/low temperature setting T1S2 for Zone 2 (read only)
		BIT3	Double zone setting is valid
		BIT2	Ta sensor position 1: IDU 0: HMI
212(PLC: 40213) 213(PLC: 40214) 214(PLC: 40215) 215(PLC: 40216) 216(PLC: 40217) 217(PLC: 40218) 218(PLC: 40219) 219(PLC: 40220) 220(PLC: 40221) 221(PLC: 40222) 222(PLC: 40223) 223(PLC: 40224) 224(PLC: 40225) 225(PLC: 40226) 226(PLC: 40227) 227(PLC: 40228) 228(PLC: 40229) 229(PLC: 40230) 230(PLC: 40231) 231(PLC: 40232) 232(PLC: 40233) 233(PLC: 40234) 234(PLC: 40235) 235(PLC: 40236) 237(PLC: 40238) 238(PLC: 40239) 240(PLC: 40241)	Parameter setting 2	BIT1	Tbt1 sensor enable 1: Yes 0: No
		BIT0	IBH/AHS installation position 1: buffer tank 0: pipe C
		dT5_On	Default setting: 10° C, range: 1~30° C;
		dT1S5	Default setting: 10° C, range: 5~40° C, setting interval: 1°
		T_Interval_DHW	Default setting: 5 min, range: 5~5 min, setting interval: 1 min
		T4DHWmax	Default setting: 43°C, range: 35~43°C, setting interval: 1°C
		T4DHWmin	Default: -10° C, range: -25~30° C;
		t_TBH_delay	Default setting: 30 min, range: 0~240 min, setting interval: 5 min
		dT5S_TBH_off	Default setting: 5°C, range: 0~10°C, setting interval: 1°C
		T4_TBH_on	Default setting: 5° C, range: -5~50° C;
		T5s_DI	Temperature for the disinfection operation, range: 60~70° C, default setting: 65°C
		t_DI_max	Maximum disinfection duration, range: 90~300 min, default setting: 210 min
		t_DI_hightemp	Disinfection high temperature duration, range: 5~60 min, default setting: 15 min
		t_interval_C	Time interval of compressor start-up in cooling mode; range: 5~5 min, default setting: 5 min
		dT1SC	Default setting: 5°C, range: 2~10°C, setting interval: 1°C
		dTSC	Default setting: 2°C, range: 1~10°C, setting interval: 1°C
		T4cmax	Default setting: 52°C, range: 35~52°C, setting interval: 1°C
		T4cmin	Default setting: 10°C, range: -5~25°C, setting interval: 1°C
		t_interval_H	Time interval of compressor start-up in the heating mode; range: 5~5 min, default setting: 5 min
		dT1SH	Default setting: 5° C, range: 2~20° C;
		dTSH	Default setting: 2°C, range: 1~10°C, setting interval: 1°C
		T4hmax	Default setting: 25°C, range: 20~35°C, setting interval: 1°C
		T4hmin	Default setting: -15° C, range: -25~30° C, Setting interval 1° C
		T4_IBH_on	Ambient temperature for enabling the hydraulic module auxiliary electric heating IBH, range: -15~10°C; default setting: -5°C
		dT1_IBH_on	Temperature return difference for enabling the hydraulic module auxiliary, range: 2~10°C; default setting: 5°C
		t_IBH_delay	Delay time of enabling the hydraulic module auxiliary electric heating IBH, range: 15~120 min; default setting: 30 min
		T4_AHS_on	The trigger ambient temperature for turning on AHS range: -15~30°C; default setting: -5°C
		dT1_AHS_on	The temperature difference between the heat pump's leaving water set temperature (T1S) and the heat, range: 2~20°C; default setting: 5°C
		t_AHS_delay	Delay time for enabling the external heater AHS, range: 5~120 min; default setting: 30 min

241(PLC: 40242)	t_DHWHP_max	Longest duration of water heating by the heat pump, range: 10~600 min, default setting: 90 min;
242(PLC: 40243)	t_DHWHP_restrict	Duration of limited water heating by the heat pump, range: 10~600 min, default setting: 30 min;
243(PLC: 40244)	T4autocmin	Default setting: 25°C, range: 20~29°C, setting interval: 1°C
244(PLC: 40245)	T4autohmax	Default setting: 17°C, range: 10~17°C, setting interval: 1°C
245(PLC: 40246)	T1S_H.A_H	Default setting: 25°C, range: 20~25°C, setting interval: 1°C
246(PLC: 40247)	T5S_H.A_DHW	In the holiday mode, setting of T1 in the water heating mode, range: 20~25°C, default setting: 25°C
247(PLC: 40248)	PER_START ratio	Range10-100, default setting10.Setting interval10
248(PLC: 40249)	TIME_ADJUST	Range1-60 default setting5
249(PLC: 40250)	dTbt2	Rrange0-50 default setting15
250(P LC: 40251)	IBH1 power	Range0-200, default setting0, unit: 100W
251(PLC: 40252)	IBH2 power	Range0-200, default setting0, unit: 100W
252(P LC: 40253)	TBH power	Range0-200, default setting0,unit: 100W
253(PLC: 40254)	Comfort parameter	Reserved, wrong address is reported whe n this register is queried
254(P LC: 40255)	Comfort parameter	Reserved, wrong address is reported whe n this register is queried
255(PLC: 40256)	t_DRYUP	Temperature rise day number, range: 4~15 days, default setting: 8 days
256(PLC: 40257)	t_HIGHPEAK	Drying day number, range: 3~7 days, default setting: 5 days
257(PLC: 40258)	t_DRYD	Temperature drop day number, range: 4~15 days, default setting: 5 days
258(PLC: 40259)	T_DRYPEAK	Highest drying temperature, range: 30~55°C, default setting: 45°C
259(PLC: 40260)	t_firstFH	Running time of floor heating for the first time, default setting: 72 hrs, range: 48-96 hrs
260(PLC: 40261)	T1S (first floor heating)	T1S of floor heating for the first time, range: 25~35°C, default setting: 25°C
261(PLC: 40262)	T1SetC1	Parameter of the ninth temperature curves for cooling mode, range: 5~25°C, default setting: 10°C
262(PLC: 40263)	T1SetC2	Parameter of the ninth temperature curves for cooling mode, range: 5~25°C, default setting: 16°C
263(PLC: 40264)	T4C1	Parameter of the ninth temperature curves for cooling mode, range: (-5) ~46°C, default setting: 35°C
264(PLC: 40265)	T4C2	Parameter of the ninth temperature curves for cooling mode, range: (-5) ~46°C, default setting: 25°C
265(PLC: 40266)	T1SetH1	Parameter of the ninth temperature curves for heating mode, range: 25~65°C, default setting: 35°C
266(PLC: 40267)	T1SetH2	Parameter of the ninth temperature curves for heating mode, range: 25~65°C, default setting: 28°C
267(PLC: 40268)	T4H1	Parameter of the ninth temperature curves for heating mode, range: (-25) ~35°C, default setting: -5°C
268(PLC: 40269)	T4H2	Parameter of the ninth temperature curves for heating mode, range: (-25) ~35°C, default setting: 7°C
269(PLC: 40270)	POWER INPUT LIMITATION	The type of power input limitation, 0=NON, 1~8=type 1~8, default: 0
270(P LC: 40271)	HB: t_T4_FRESH_C	Range: 0.5~6 hour, setting interval: 0.5 hour, sending value=actual value*2
	LB: t_T4_FRESH_H	Range: 0.5~6 hour, setting interval: 0.5 hour, sending value=actual value*2
271(PLC: 40272)	T_PUMPI_DELAY	Range: 0.5~20 hour, setting interval: 0.5 hour, sending value=actual value*2
272(PLC: 40273)	EMISSION TYPE	Bit12-15: The type of zone 2 end for cooling mode
		Bit8-11: The type of zone 1 end for cooling mode
		Bit4-7: The type of zone 2 end for heating mode
		Bit0-3: The type of zone 1 end for heating mode

1.1.3 Slave units parameters (Read register)

Register address	Description	Remarks
1000	Operation mode	Unit actual operation mode. 2 = cooling, 3 = heating, 0 = OFF
1001	Operation frequency	Compressor frequency, in Hz. Send value = actual value
1002	Inlet water temperature	TW_in, in °C. Send value = actual value
1003	Outlet water temperature	TW_out, in °C. Send value = actual value
1004	Solar thermistor temperature	Tsolar, in °C. Send value = actual value
1005	Current fault of slave unit	Check the code table for detailed fault codes
1006	P6 Error detail	Reserved
1007	Indoor unit status 1	Bit3~7 reserved Bit2 Oil return Bit1 Anti-freeze Bit0 Defrost
1008	Indoor unit status 2	Bit7 reserved Bit6 reserved Bit5 reserved Bit4 T1 enable. 1 = Yes, 2 = No Bit3 IBH enable. 1 = Yes, 2 = No Bit2 DHW in operation Bit1 heating in operation Bit0 cooling in operation
1009	Indoor unit load	Bit7 heat4 - crankcase heater Bit6 reserved Bit5 defrost Bit4 run Bit3 PUMP_i Bit2 reserved Bit1 IBH2 Bit0 IBH1
1010	Indoor unit load	Reserved
1011	T1	Water outlet temperature (after IBH), in °C. Send value = actual value, invalid value = 0x7F
1012	T1B(Tw2)	Water outlet temperature (after AHS), in °C. Send value = actual value, invalid value = 0x7F
1013	T2	Refrigerant liquid temperature, in °C. Send value = actual value, invalid value = 0x7F
1014	T2B	Refrigerant gas temperature, in °C. Send value = actual value, invalid value = 0x7F
1015	T5	DHW temperature, invalid value = 0x7F
1016	Ta	Room temperature, in °C. Send value = actual value, invalid value = 0x7F
1017	Tbt1	Balance tank top temperature, in °C. Send value = actual value,
1018	Tbt2	Balance tank bottom temperature, in °C. Send value = actual value,
1019	Flow rate	Actual value*100, in M3/H
1020	Unit model	E.g. value 12-16, means unit model is 12-16KW
1021	Unit target frequency	
1022	Unit version	1~99 means unit version, means hydraulic module version
1023	Higher bits of heat energy	
1024	Lower bits of heat energy	
1025	Capacity of hydraulic module	Actual value *100, in Kw
1026	Fan speed	Fan speed, in r/min. Send value = actual value
1027	PMV opening	expansion valve opening, in P. Send value = actual value
1028	T3 temperature	Fin heat exchanger temperature, in °C. Send value = actual value, invalid value = 0x7F
1029	T4 temperature	Outdoor ambient temperature, in °C. Send value = actual value, invalid value = 0x7F
1030	Discharge temperature	Discharge temperature of compressor Tp, in °C. Send value = actual value, invalid value = 0x7F
1031	Suction temperature	Suction temperature of compressor Tp, in °C. Send value = actual value, invalid value = 0x7F
1032	TF module temperature	In °C. Invalid value = 0x7F
1033	Pressure value 1	High pressure of refrigerant loop, in kPA. Send value = actual value
1034	Pressure value 2	Low pressure of refrigerant loop, in kPA. Send value = actual value
1035	DC bus current	In A
1036	DC bus voltage	In V. Return value = actual value
1037	Outdoor unit current	Outdoor unit operation current, in A. Send value = actual value
1038	Outdoor unit voltage	Outdoor unit operation voltage, in V. Send value = actual value
1039	Outdoor unit frequency limitation target value	Return value = actual value
1040	Higher bits of power consumption	

1041	Lower bits of power consumption	
1042	Software version of outdoor unit	

Note:

1)The table above is mapping address table of slave unit 1

2)The mapping address of slave unit $X(2-15) = \text{The mapping address of slave unit 1} + (X-1)*200$. E.g. The mapping address of slave unit 4 is 1600~1642.

HYUNDAI



Kontakt

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