

## Communication protocol between monoblock h

Data Format:9600bps/8/N/1

Master-slave Format: controller (operation panel) host computer as the master, address: #0; control board as slave,

Communication Requirements: The slave will reply after 10ms after receiving the command from the master; if the

<b>Control Register Operatio</b>						
<b>Touch Screen Parameter</b>	<b>Decimal +1</b>	<b>Decimal</b>	<b>Base Address: 0x1000</b>	<b>Item</b>	<b>Command Code</b>	<b>Units</b>
P0	4097	4096	0x1000+0	On-off Setting	0x10/0x06/0x03	--
P1、C54	4098	4097	0x1000+1	Mode Setting	0x10/0x06/0x03	
P2、C45	4099	4098	0x1000+2	A/C Heating Temperature Setting	0x10/0x06/0x03	--
P3、C46	4100	4099	0x1000+3	A/C Cooling Temperature Setting	0x10/0x06/0x03	
P4、C47	4101	4100	0x1000+4	DHW Temperature Setting		
P5	4102	4101	0x1000+5	Indoor Temperature Setting	0x10/0x06/0x03	1℃
	4103	4102	0x1000+6	Electrical Heating State	0x10/0x06/0x03	--
	4104	4103	0x1000+7	Forced Defrosting	0x10/0x06/0x03	
	4105	4104	0x1000+8	Fault Clearing	0x10/0x06/0x03	
	4106	4105	0x1000+9	Control Parameter Reset	0x10/0x06/0x03	--
	4107	4106	0x1000+10	Current Time 1	0x10/0x06/0x03	Monthly/Daily
	4108	4107	0x1000+11	Current Time 2	0x10/0x06/0x03	Hour/Minute
	4109	4108	0x1000+12	Status Data	0x10/0x06/0x03	--
	4110	4109	0x1000+13	Controller Model	0x10/0x06/0x03	--
C56	4111	4110	0x1000+14	Controller Software Version	0x10/0x06/0x03	--
	4112	4111	0x1000+15	Water Pump Timing Open Sign	0x10/0x06/0x03	--

<b>Operating Parameter Register C</b>						
<b>Touch Screen Parameter</b>	<b>Decimal +1</b>	<b>Decimal</b>	<b>Base Address: 0x1000</b>	<b>Item</b>	<b>Command Code</b>	<b>Units</b>
	4353	4352	0x1100+0	Main Control Board Model	0x03	--

C55	4354	4353	0x1100+1	Main Control Board Software Version	0x03	--
C31(bit8),C33(bit4),C34(bit9),C35(bit9)	4355	4354	0x1100+2	The current operating status of the unit	0x03	--
C36(bit1),C37(bit0),C38(bit8),C39(bit9),C40(bit6),C41(bit7),C42(bit3),C43(bit4),C44(bit5)	4356	4355	0x1100+3	The current output status of the unit	0x03	--
C29(bit1),C30(bit0),C60(bit7),C61(bit5),C62(bit3)	4357	4356	0x1100+4	Switch Input Status	0x03	--
	4358	4357	0x1100+5	System Capability Requirements	0x03	-
C00	4359	4358	0x1100+6	Coil temp	0x03	0.1℃
C01	4360	4359	0x1100+7	Discharge temp	0x03	0.1℃
C02	4361	4360	0x1100+8	Ambient temp	0x03	0.1℃
C03	4362	4361	0x1100+9	Suction temp	0x03	0.1℃
C04	4363	4362	0x1100+10	EVI Inlet temp	0x03	0.1℃
C05	4364	4363	0x1100+11	EVI Outlet temp	0x03	0.1℃
C06	4365	4364	0x1100+12	Refrigerant liquid temperature	0x03	0.1℃
C07	4366	4365	0x1100+13	Water inlet temperature	0x03	0.1℃
C08	4367	4366	0x1100+14	Water outlet temperature	0x03	0.1℃
C09	4368	4367	0x1100+15	DHW tank temperature	0x03	0.1℃
C10	4369	4368	0x1100+16	Water flow	0x03	L/min
C11	4370	4369	0x1100+17	Main circulation temperature	0x03	0.1℃
C12	4371	4370	0x1100+18	EVI circulation temperature differential	0x03	0.1℃
C13	4372	4371	0x1100+19	High pressure	0x03	ParG
C14	4373	4372	0x1100+20	Low pressure	0x03	ParG
C15	4374	4373	0x1100+21	Compressor running frequency	0x03	1HZ
C16	4375	4374	0x1100+22	Fan motor 1	0x03	1RPM
C17	4376	4375	0x1100+23	Fan motor 2	0x03	1RPM
C18	4377	4376	0x1100+24	EEV steps	0x03	1P
C19	4378	4377	0x1100+25	EVI EEV steps	0x03	1P
C20	4379	4378	0x1100+26	Compressor target frequency	0x03	1HZ
C21	4380	4379	0x1100+27	Compressor input current	0x03	0.1A
C22	4381	4380	0x1100+28	IPM temperature	0x03	1℃
C23	4382	4381	0x1100+29	AC power voltage	0x03	1V
C24	4383	4382	0x1100+30	DC power voltage	0x03	1V

C25	4384	4383	0x1100+31	T6	0x03	0.1 °C
C26, C53	4385	4384	0x1100+32	Room Temperature (T2)	0x03	0.1 °C
C27	4386	4385	0x1100+33	Evaporator temperature	0x03	0.1 °C
C28	4387	4386	0x1100+34	Condenser temperature	0x03	0.1 °C
	4388	4387	0x1100+35	Frequency Limit Item	0x03	--
	4389	4388	0x1100+36	Calculating Temperature From Energy Requirements	0x03	0.1 °C
	4390	4389	0x1100+37	Calculating Temperature From Energy Requirements	0x03	0.1 °C
E01(bit0),E02(bit1),E03(bit2),E04(bit3),E05(bit4),E06(bit5),E07(bit6),E08(bit7),E09(bit8),E10(bit9),E11(bit10),E12(bit11),E13(bit12),E14(bit13),E15(bit14).E16(bit15)	4391	4390	0x1100+38	Fault State 0	0x03	--
E17(bit0),E18(bit1),E19(bit2),E20(bit3),E21(bit4),E22(bit5),E23(bit6),E24(bit7),E25(bit8),E26(bit9),E27(bit10),E28(bit11),E29(bit12),E30(bit13),E31(bit14),E32(bit15)	4392	4391	0x1100+39	Fault State 1	0x03	

E36(bit3),E59(bit6),E40(bit7),E44(bit11),E45(bit12)	4393	4392	0x1100+40	Fault State 2	0x03	--
E50(bit1),E100(bit2),E101(bit3),E102(bit4),E103(bit5),E104(bit6),E105(bit7),E106(bit8),E107(bit9),E108(bit10)	4394	4393	0x1100+41	Fault State 3	0x03	-
E20-1(bit0),E20-5(bit1),E20-320(bit2),E20-288(bit5),E20-384(bit6),E20-32(bit7),E20-16(bit8),E20-264(bit9),E20-257(bit15),E20-260(bit4),E20-261(bit11)	4395	4394	0x1100+42	Driver Board Fault Codes 0	0x03	--
E20-4(bit0),E44(bit1)	4396	4395	0x1100+43	Driver Board Fault Codes 1	0x03	--
Drive self-protection non-stop, self-adaptive adjustment	4397	4396	0x1100+44	Driver Board Fault Codes 2	0x03	--

	4398	4397	0x1100+45	C1 Water Pump PWM Output Value	0x03	--
	4399	4398	0x1100+46	Compressor Phase Current	0x03	0.1A
	4400	4399	0x1100+47			
	4401	4400	0x1100+48			
	4402	4401	0x1100+49			
	Decimal +1	Decimal	Address			
	<b>4609</b>	<b>4608</b>	<b>0x1200+0</b>	<b>Compressor total running times</b>	<b>0x03</b>	<b>--</b>
C49	4610	4609	0x1200+1	Return lubricant oil status	0x03	<b>0</b>
C50	4611	4610	0x1200+2	Compressor total running time	0x03	<b>1Hour</b>
C51	4612	4611	0x1200+3	C1 water pump speed	0x03	<b>1%</b>
C52	4613	4612	0x1200+4	Running mode	0x03	
	<b>4614</b>	<b>4613</b>	<b>0x1200+5</b>	<b>Defrost times</b>	<b>0x03</b>	<b>--</b>
	4615	4614	0x1200+6	C2 water pump speed	0x03	\
C55	4616	4615	0x1200+7	PCB Software version	0x03	\
C56	4617	4616	0x1200+8	HMI software version	0x03	\
	4618	4617	0x1200+9	Concentration	0x03	0,10%
	4619	4618	0x1200+10	Alarm Threshold	0x03	0,10%
	4620	4619	0x1200+11	Alarm or not	0x03	\

			<b>0x1200+20</b>	<b>Historical Faults 0</b>	<b>0x03</b>	
			<b>0x1200+21</b>	<b>Historical Faults 1</b>	<b>0x03</b>	
			<b>0x1200+22</b>	<b>Historical Faults 2</b>	<b>0x03</b>	
			<b>0x1200+23</b>	<b>Historical Faults 3</b>	<b>0x03</b>	
			<b>0x1200+24</b>	<b>Historical Faults 4</b>	<b>0x03</b>	
			<b>0x1200+25</b>	<b>Historical Faults 5</b>	<b>0x03</b>	
			<b>0x1200+26</b>	<b>Historical Faults 6</b>	<b>0x03</b>	
			<b>0x1200+27</b>	<b>Historical Faults 7</b>	<b>0x03</b>	

### Operating Parameter Register (

	Decimal +1	Decimal	Base Address: 0x1A00	Item	Command Code	Units
	6657	6656	0x1A00+0	Compressor Frequency Adjust	0x10/0x06/0x03	--
	6658	6657	0x1A00+1	Adjust Frequency	0x10/0x06/0x03	Hz
	6659	6658	0x1A00+2	Adjust A Fan Speed enabled	0x10/0x06/0x03	--
	6660	6659	0x1A00+3	Adjust A Fan Speed enabled	0x10/0x06/0x03	RPM

	6661	6660	0x1A00+4	Adjust B Fan Speed enabled	0x10/0x06/0x03	--
	6662	6661	0x1A00+5	Adjust B Fan Speed enabled	0x10/0x06/0x03	RPM
	6663	6662	0x1A00+6	Adjust A Electronic Expansion Valve enabled	0x10/0x06/0x03	--
	6664	6663	0x1A00+7	Adjust A Electronic Expansion Valve Opening and closing degree enabled	0x10/0x06/0x03	P
	6665	6664	0x1A00+8	Adjust B Electronic Expansion Valve enabled	0x10/0x06/0x03	--
	6666	6665	0x1A00+9	Adjust B Electronic Expansion Valve Opening and closing degree enabled	0x10/0x06/0x03	P
	6667	6666	0x1A00+10	Forbid Defrosting enabled	0x10/0x06/0x03	--
	6668	6667	0x1A00+11	C1 pump speed enabled	--	0/1
	6669	6668	0x1A00+12	C1 Pump speed percentage	--	0-100
	6670	6669	0x1A00+13	C2 pump speed enabled	--	0/1
	6671	6670	0x1A00+14	C2 Pump speed percentage	--	0-100

Control parameter						
Touch Screen Parameter	Decimal +1	Decimal	Base Address: 0x2000	Item	Function Code	Units
P00	8193	8192	0x2000+0	Function selection 1	0x10/0x06/0x03	1
P01	8194	8193	0x2000+1	Function selection 2	0x10/0x06/0x03	1
P06	8197	8196	0x2000+4	A/C Hysteresis temperature (cooling and heating use the same point)	0x10/0x06/0x03	0.1℃
P07	8198	8197	0x2000+5	DHW Hysteresis temperature	0x10/0x06/0x03	0.1℃
P08	8199	8198	0x2000+6	A/C Heating AU maximum temperature	0x10/0x06/0x03	0.1℃
P09	8200	8199	0x2000+7	A/C Heating AU offset temperature	0x10/0x06/0x03	0.1℃
P10	8201	8200	0x2000+8	Sterilization interval days	0x10/0x06/0x03	1
P11	8202	8201	0x2000+9	Sterilization start time	0x10/0x06/0x03	1
P12	8203	8202	0x2000+10	Sterilization run time	0x10/0x06/0x03	1
P13	8204	8203	0x2000+11	Sterilization temperature	0x10/0x06/0x03	0.1℃
P14	8205	8204	0x2000+12	Sterilization mode selection	0x10/0x06/0x03	1
P15	8206	8205	0x2000+13	Night mode starting time	0x10/0x06/0x03	1
P16	8207	8206	0x2000+14	Night mode ending time	0x10/0x06/0x03	1
P17	8208	8207	0x2000+15	Night mode effective	0x10/0x06/0x03	1
P18	8209	8208	0x2000+16	DHW AU function	0x10/0x06/0x03	1
P19	8210	8209	0x2000+17	AC Heating Model AU enable	0x10/0x06/0x03	1
P20	8211	8210	0x2000+18	Water pump working way	0x10/0x06/0x03	1
P21	8212	8211	0x2000+19	Water pump antifreeze time	0x10/0x06/0x03	1min
P22	8213	8212	0x2000+20	A/C Electric Auxiliary Thermal Start Ambient Temperature	0x10/0x06/0x03	0.1℃
P23	8214	8213	0x2000+21	DHW Electric Auxiliary Thermal Start Ambient Temperature	0x10/0x06/0x03	0.1℃
P24	8215	8214	0x2000+22	Electric heating E1/E2 stop ambient temperature hysteresis	0x10/0x06/0x03	0.1℃
P25	8216	8215	0x2000+23	A/C antifreeze temperature	0x10/0x06/0x03	0.1℃
P26	8217	8216	0x2000+24	Defrost Interval Multiplier	0x10/0x06/0x03	1
P27	8218	8217	0x2000+25	defrost cycle	0x10/0x06/0x03	1min

P28	8219	8218	0x2000+26	Defrost mode (it will default to 0 after the forced defrost is completed)	0x10/0x06/0x03	1
P29	8220	8219	0x2000+27	Defrost Start Coil Temperature	0x10/0x06/0x03	0.1°C
P30	8221	8220	0x2000+28	Defrost end Coil Temperature	0x10/0x06/0x03	0.1°C
P31	8222	8221	0x2000+29	Defrost working maximum time	0x10/0x06/0x03	1min
P32	8223	8222	0x2000+30	Parameter 31 Main valve control way	0x10/0x06/0x03	1
P33	8224	8223	0x2000+31	Parameter 32 Main valve manual opening for heating	0x10/0x06/0x03	1
P34	8225	8224	0x2000+32	Parameter 33 Main valve manual opening for cooling	0x10/0x06/0x03	1
P35	8226	8225	0x2000+33	DHW mode, compressor working upper limit water temperature	0x10/0x06/0x03	0.1°C
P36	8227	8226	0x2000+34	Interval time between compressor and E1 startup (reserved)	0x10/0x06/0x03	1min
P37	8228	8227	0x2000+35	Heating mode, DC fan speed variable	0x10/0x06/0x03	0.1°C
P38	8229	8228	0x2000+36	Cooling mode, DC fan speed variable	0x10/0x06/0x03	0.1°C
P39	8230	8229	0x2000+37	Inverter compressor model setting (reserved)	0x10/0x06/0x03	1
P40	8231	8230	0x2000+38	P38 Running set frequency function	0x10/0x06/0x03	1
P41	8232	8231	0x2000+39	Compressor oil return frequency	0x10/0x06/0x03	1Hz
P42	8233	8232	0x2000+40	Compressor prohibits up-frequency current	0x10/0x06/0x03	0.1A
P43	8234	8233	0x2000+41	Compressor down frequency current	0x10/0x06/0x03	0.1A
P44	8235	8234	0x2000+42	Compressor shutdown current	0x10/0x06/0x03	0.1A
P45	8236	8235	0x2000+43	Compressor maximum frequency	0x10/0x06/0x03	1Hz
P46	8237	8236	0x2000+44	Compressor minimum frequency	0x10/0x06/0x03	1Hz
P47	8238	8237	0x2000+45	Compressor defrost frequency	0x10/0x06/0x03	1Hz
P48	8239	8238	0x2000+46	DHW maximum frequency	0x10/0x06/0x03	1Hz
P49	8240	8239	0x2000+47	Exhaust overheat proportional coefficient	0x10/0x06/0x03	0,1
P50	8241	8240	0x2000+48	Exhaust overheat differential coefficient	0x10/0x06/0x03	1
P51	8242	8241	0x2000+49	High pressure prohibit boost pressure	0x10/0x06/0x03	0.1BarG
P52	8243	8242	0x2000+50	High pressure cancel prohibits boost pressure	0x10/0x06/0x03	0.1BarG
P53	8244	8243	0x2000+51	High voltage protection set point	0x10/0x06/0x03	0.1BarG
P54	8245	8244	0x2000+52	Low voltage protection set point	0x10/0x06/0x03	0.1BarG
P55	8246	8245	0x2000+53	High pressure protection release hysteresis	0x10/0x06/0x03	0.1BarG
P56	8247	8246	0x2000+54	Low pressure protection release hysteresis	0x10/0x06/0x03	0.1BarG
P57	8248	8247	0x2000+55	Exhaust temperature protection point	0x10/0x06/0x03	1°C
P58	8249	8248	0x2000+56	C1 water pump speed regulation temperature difference	0x10/0x06/0x03	0.1°C
P59	8250	8249	0x2000+57	PWM water pump minimum speed	0x10/0x06/0x03	10%
P60	8251	8250	0x2000+58	DC fan maximum speed	0x10/0x06/0x03	1RPM
P61	8252	8251	0x2000+59	Minimum water flow	0x10/0x06/0x03	1L/min
P62	8253	8252	0x2000+60	A/C function selection	0x10/0x06/0x03	1
P63	8254	8253	0x2000+61	DHW function selection	0x10/0x06/0x03	1
P64	8255	8254	0x2000+62	Minimum opening of expansion valve	0x10/0x06/0x03	1P
P65	8256	8255	0x2000+63	Water pump C2 function definition	0x10/0x06/0x03	1
P66	8257	8256	0x2000+64	Water source air cooling option	0x10/0x06/0x03	1
P67	8258	8257	0x2000+65	Indoor temperature controller (reserved)	0x10/0x06/0x03	1
P68	8259	8258	0x2000+66	Water flow switch type selection	0x10/0x06/0x03	1
P69	8260	8259	0x2000+67	Type of fan	0x10/0x06/0x03	1
P70	8261	8260	0x2000+68	Power-down memory function	0x10/0x06/0x03	1
P71	8262	8261	0x2000+69	P71 DC fan speed control	0x10/0x06/0x03	1

P72	8263	8262	0x2000+70	P72 DC fan manual speed	0x10/0x06/0x03	1
P73	8264	8263	0x2000+71	Pressure sensor enable	0x10/0x06/0x03	1
P74	8265	8264	0x2000+72	Enthalpy injection valve control mode	0x10/0x06/0x03	1
P75	8266	8265	0x2000+73	EVI valve initial opening (manual opening) heating	0x10/0x06/0x03	1P
P76	8267	8266	0x2000+74	EVI valve initial opening (manual opening) cooling	0x10/0x06/0x03	1P
P77	8268	8267	0x2000+75	Spray enthalpy valve superheat (heating)	0x10/0x06/0x03	0.1℃
P78	8269	8268	0x2000+76	Spray enthalpy valve superheat (cooling)	0x10/0x06/0x03	0.1℃
P79	8270	8269	0x2000+77	WIFI data upload cycle	0x10/0x06/0x03	1s
P80	8271	8270	0x2000+78	Calculate the minimum operating frequency of the compressor Coefficient	0x10/0x06/0x03	0,1
P81	8272	8271	0x2000+79	E1/E2 function mode definition	0x10/0x06/0x03	1
P82	8273	8272	0x2000+80	Second heat source starting temperature (ambient temperature $\leq -15^{\circ}\text{C}$ , heatpump stop)	0x10/0x06/0x03	0.1℃
P83	8274	8273	0x2000+81	Hot water circulation pump working mode (C3 P88=1)	0x10/0x06/0x03	1
P84	8275	8274	0x2000+82	Hot water circulating pump opening temperature difference (P88=1, P83=2 or P83=3)	0x10/0x06/0x03	0.1℃
P85	8276	8275	0x2000+83	Ambient temperature for defrosting	0x10/0x06/0x03	0.1℃
P86	8277	8276	0x2000+84	Defrost environment and coil temperature difference $\Delta T1$ (Ambient temperature $\geq -7^{\circ}\text{C}$ )	0x10/0x06/0x03	0.1℃
P87	8278	8277	0x2000+85	Restore factory settings (effective in shutdown state)	0x10/0x06/0x03	1
P88	8279	8278	0x2000+86	C3 water pump function selection	0x10/0x06/0x03	1
P89	8280	8279	0x2000+87	Return air superheat ratio coefficient	0x10/0x06/0x03	0,1
P90	8281	8280	0x2000+88	Return air superheat differential coefficient	0x10/0x06/0x03	1
P91	8282	8281	0x2000+89	Defrost environment and coil temperature difference $\Delta T2$ (Ambient temperature $< -7^{\circ}\text{C}$ )	0x10/0x06/0x03	0.1℃
P92	8283	8282	0x2000+90	Heating return air target superheat (Ambient Temperature $\leq 5$ )	0x10/0x06/0x03	0.1℃
P93	8284	8283	0x2000+91	Heating return air target superheat degree ( $-5 \geq$ Ambient Temperature $> 5$ )	0x10/0x06/0x03	0.1℃
P94	8285	8284	0x2000+92	Heating return air target superheat ( $5 \geq$ Ambient Temperature $> 25$ )	0x10/0x06/0x03	0.1℃
P95	8286	8285	0x2000+93	Cooling return air target superheat	0x10/0x06/0x03	0.1℃
P96	8287	8286	0x2000+94	Heating return air target superheat degree ( $45 \geq$ ambient temperature $> 25$ )	0x10/0x06/0x03	0.1℃
P97	8288	8287	0x2000+95	Parameter 96	0x10/0x06/0x03	1
P98	8289	8288	0x2000+96	Inversion of the control signal for the G1 valve	0x10/0x06/0x03	--
P99	8290	8289	0x2000+97	Inversion of the control signal for the G2 valve	0x10/0x06/0x03	--
P100	8291	8290	0x2000+98	Inversion of the control signal for the G3 valve	0x10/0x06/0x03	--
P101	8292	8291	0x2000+99	EEV steps for defrosting	0x10/0x06/0x03	1P
P102	8293	8292	0x2000+100	Temperature difference protection value of inlet and outlet water	0x10/0x06/0x03	0.1℃
P103	8294	8293	0x2000+101	EEV initial opening hold time	0x10/0x06/0x03	1s

P104	8295	8294	0x2000+102	Initial compressor frequency for AC heating/cooling capacity calculation	0x10/0x06/0x03	1Hz
P105	8195	8194	0x2000+2	Compressor frequency up A platform frequency	PLAT_A_FREQ	1Hz
P106	8196	8195	0x2000+3	Compressor A platform delay time	PLAT_A_TIM	1s
P107	8296	8295	0x2000+103	PRT calculation valume	0x10/0x06/0x03	-
P108	8297	8296	0x2000+104	R485 monitoring address	0x10/0x06/0x03	1
P109	8298	8297	0x2000+105	Discharge temp. value 1 to limit compressor frequency	0x10/0x06/0x03	1°C
P110	8299	8298	0x2000+106	Discharge temp. value 2 to limit compressor frequency	0x10/0x06/0x03	1°C
P111	8300	8299	0x2000+107	Discharge temp. value 3 to limit compressor frequency	0x10/0x06/0x03	1°C
P112	8301	8300	0x2000+108	EEV adjustment temp. when discharge temp. is too high	0x10/0x06/0x03	1°C
P113	8302	8301	0x2000+109	EEV adjustment time when discharge temp. is too high	0x10/0x06/0x03	1s
P114	8303	8302	0x2000+110	Compressor frequency reduction percentage after set temp. reached.	0x10/0x06/0x03	1%
P115	8304	8303	0x2000+111	Outlet temp. too high protection value	0x10/0x06/0x03	1°C
P116	8305	8304	0x2000+112	Electrical auxiliary heat calculation switch	0x10/0x06/0x03	1
P117	8306	8305	0x2000+113	E0 electric heating power	0x10/0x06/0x03	1
P118	8307	8306	0x2000+114	E1 electric heating power	0x10/0x06/0x03	1
P119	8308	8307	0x2000+115	E2 electric heating power	0x10/0x06/0x03	1
P120	8309	8308	0x2000+116	reserve	0x10/0x06/0x03	1
	8310	8309	0x2000+117	reserve	0x10/0x06/0x03	1
	8311	8310	0x2000+118	reserve	0x10/0x06/0x03	1
P121	8312	8311	0x2000+119	PV activation	0x10/0x06/0x03	1
P122	8313	8312	0x2000+120	floor drying program	0x10/0x06/0x03	1
P123	8314	8313	0x2000+121	1st period	0x10/0x06/0x03	1
P124	8315	8314	0x2000+122	1st period start temperature	0x10/0x06/0x03	1
P125	8316	8315	0x2000+123	1st period end temperature	0x10/0x06/0x03	1
P126	8317	8316	0x2000+124	2nd period	0x10/0x06/0x03	1
P127	8318	8317	0x2000+125	2nd period start temperature	0x10/0x06/0x03	1
P128	8319	8318	0x2000+126	2nd period end temperature	0x10/0x06/0x03	1
P129	8320	8319	0x2000+127	3rd period	0x10/0x06/0x03	1
P130	8321	8320	0x2000+128	3rd period start temperature	0x10/0x06/0x03	1
P131	8322	8321	0x2000+129	3rd period end temperature	0x10/0x06/0x03	1
P132	8323	8322	0x2000+130	4th period	0x10/0x06/0x03	1
P133	8324	8323	0x2000+131	4th period start temperature	0x10/0x06/0x03	1
P134	8325	8324	0x2000+132	4th period end temperature	0x10/0x06/0x03	1
P135	8326	8325	0x2000+133	AU heating limiting temperature	0x10/0x06/0x03	1
P136	8327	8326	0x2000+134	AU heating recovery temperature	0x10/0x06/0x03	1

Decimal +1	Decimal	0x1300	Definition of SG		
4865	4864	0x1300+0	PSG1	0x10/0x06/0x03	P201
4866	4865	0x1300+1	PSG2	0x10/0x06/0x03	P202
4867	4866	0x1300+2	PSG3	0x10/0x06/0x03	P203
4868	4867	0x1300+3	PSG4	0x10/0x06/0x03	P204
4869	4868	0x1300+4	PSG5	0x10/0x06/0x03	P205
4870	4869	0x1300+5	PSG6	0x10/0x06/0x03	P206
4871	4870	0x1300+6	PSG7	0x10/0x06/0x03	P207
4872	4871	0x1300+7	PSG8	0x10/0x06/0x03	P208
4873	4872	0x1300+8			
4874	4873	0x1300+9			
4875	4874	0x1300+10			
		0x1400	energy storage		
5121	5120	0x1400+0		0	
5122	5121	0x1400+1			1

5123	5122	0x1400+2	2	Hour	Produced energy
5124	5123	0x1400+3	3		
5125	5124	0x1400+4	4		
5126	5125	0x1400+5	5		
5127	5126	0x1400+6	6		
5128	5127	0x1400+7	7		
5129	5128	0x1400+8	8		
5130	5129	0x1400+9	9		
5131	5130	0x1400+10	10		
5132	5131	0x1400+11	11		
5133	5132	0x1400+12	12		
5134	5133	0x1400+13	13		
5135	5134	0x1400+14	14		
5136	5135	0x1400+15	15		
5137	5136	0x1400+16	16		
5138	5137	0x1400+17	17		
5139	5138	0x1400+18	18		
5140	5139	0x1400+19	19		
5141	5140	0x1400+20	20		
5142	5141	0x1400+21	21		
5143	5142	0x1400+22	22		
5144	5143	0x1400+23	23		
5145	5144	0x1400+24	1		
5146	5145	0x1400+25	2		
5147	5146	0x1400+26	3		
5148	5147	0x1400+27	4		
5149	5148	0x1400+28	5		
5150	5149	0x1400+29	6		
5151	5150	0x1400+30	7		
5152	5151	0x1400+31	8		
5153	5152	0x1400+32	9		
5154	5153	0x1400+33	10		
5155	5154	0x1400+34	11		
5156	5155	0x1400+35	12		
5157	5156	0x1400+36	13		
5158	5157	0x1400+37	14		
5159	5158	0x1400+38	15		
5160	5159	0x1400+39	16		
5161	5160	0x1400+40	17		
5162	5161	0x1400+41	18		
5163	5162	0x1400+42	19		
5164	5163	0x1400+43	20		
5165	5164	0x1400+44	21		
5166	5165	0x1400+45	22		
5167	5166	0x1400+46	23		
5168	5167	0x1400+47	24		
5169	5168	0x1400+48	25		
5170	5169	0x1400+49	26		
5171	5170	0x1400+50	27		
5172	5171	0x1400+51	28		
5173	5172	0x1400+52	29		
5174	5173	0x1400+53	30		
5175	5174	0x1400+54	31		
5176	5175	0x1400+55	1	Monthly	
5177	5176	0x1400+56	2		
5178	5177	0x1400+57	3		
5179	5178	0x1400+58	4		
5180	5179	0x1400+59	5		
5181	5180	0x1400+60	6		
5182	5181	0x1400+61	7		
5183	5182	0x1400+62	8		
5184	5183	0x1400+63	9		
5185	5184	0x1400+64	10		
5186	5185	0x1400+65	11		
5187	5186	0x1400+66	12		
5188	5187	0x1400+67	0		
5189	5188	0x1400+68	1		
5190	5189	0x1400+69	2		
5191	5190	0x1400+70	3		

5192	5191	0x1400+71	4	Hour			
5193	5192	0x1400+72	5				
5194	5193	0x1400+73	6				
5195	5194	0x1400+74	7				
5196	5195	0x1400+75	8				
5197	5196	0x1400+76	9				
5198	5197	0x1400+77	10				
5199	5198	0x1400+78	11				
5200	5199	0x1400+79	12				
5201	5200	0x1400+80	13				
5202	5201	0x1400+81	14				
5203	5202	0x1400+82	15				
5204	5203	0x1400+83	16				
5205	5204	0x1400+84	17				
5206	5205	0x1400+85	18				
5207	5206	0x1400+86	19				
5208	5207	0x1400+87	20				
5209	5208	0x1400+88	21				
5210	5209	0x1400+89	22				
5211	5210	0x1400+90	23				
5212	5211	0x1400+91	1			Daily	Produced renewable energy
5213	5212	0x1400+92	2				
5214	5213	0x1400+93	3				
5215	5214	0x1400+94	4				
5216	5215	0x1400+95	5				
5217	5216	0x1400+96	6				
5218	5217	0x1400+97	7				
5219	5218	0x1400+98	8				
5220	5219	0x1400+99	9				
5221	5220	0x1400+100	10				
5222	5221	0x1400+101	11				
5223	5222	0x1400+102	12				
5224	5223	0x1400+103	13				
5225	5224	0x1400+104	14				
5226	5225	0x1400+105	15				
5227	5226	0x1400+106	16				
5228	5227	0x1400+107	17				
5229	5228	0x1400+108	18				
5230	5229	0x1400+109	19				
5231	5230	0x1400+110	20				
5232	5231	0x1400+111	21				
5233	5232	0x1400+112	22				
5234	5233	0x1400+113	23				
5235	5234	0x1400+114	24				
5236	5235	0x1400+115	25				
5237	5236	0x1400+116	26				
5238	5237	0x1400+117	27				
5239	5238	0x1400+118	28				
5240	5239	0x1400+119	29				
5241	5240	0x1400+120	30				
5242	5241	0x1400+121	31				
5243	5242	0x1400+122	1	Monthly			
5244	5243	0x1400+123	2				
5245	5244	0x1400+124	3				
5246	5245	0x1400+125	4				
5247	5246	0x1400+126	5				
5248	5247	0x1400+127	6				
5249	5248	0x1400+128	7				
5250	5249	0x1400+129	8				
5251	5250	0x1400+130	9				
5252	5251	0x1400+131	10				
5253	5252	0x1400+132	11				
5254	5253	0x1400+133	12				
5255	5254	0x1400+134	0				
5256	5255	0x1400+135	1				
5257	5256	0x1400+136	2				
5258	5257	0x1400+137	3				
5259	5258	0x1400+138	4				
5260	5259	0x1400+139	5				

	5261	5260	0x1400+140		6	Hour	Consumed energy
	5262	5261	0x1400+141		7		
	5263	5262	0x1400+142		8		
	5264	5263	0x1400+143		9		
	5265	5264	0x1400+144		10		
	5266	5265	0x1400+145		11		
	5267	5266	0x1400+146		12		
	5268	5267	0x1400+147		13		
	5269	5268	0x1400+148		14		
	5270	5269	0x1400+149		15		
	5271	5270	0x1400+150		16		
	5272	5271	0x1400+151		17		
	5273	5272	0x1400+152		18		
	5274	5273	0x1400+153		19		
	5275	5274	0x1400+154		20		
	5276	5275	0x1400+155		21		
	5277	5276	0x1400+156		22		
	5278	5277	0x1400+157		23		
	5279	5278	0x1400+158		1		
	5280	5279	0x1400+159		2		
	5281	5280	0x1400+160		3		
	5282	5281	0x1400+161		4		
	5283	5282	0x1400+162		5		
	5284	5283	0x1400+163		6		
	5285	5284	0x1400+164		7		
	5286	5285	0x1400+165		8		
	5287	5286	0x1400+166		9		
	5288	5287	0x1400+167		10		
	5289	5288	0x1400+168		11		
	5290	5289	0x1400+169		12		
	5291	5290	0x1400+170		13		
	5292	5291	0x1400+171		14		
	5293	5292	0x1400+172		15		
	5294	5293	0x1400+173		16		
	5295	5294	0x1400+174		17		
	5296	5295	0x1400+175		18		
	5297	5296	0x1400+176		19		
	5298	5297	0x1400+177		20		
	5299	5298	0x1400+178		21		
	5300	5299	0x1400+179		22		
	5301	5300	0x1400+180		23		
	5302	5301	0x1400+181		24		
	5303	5302	0x1400+182		25		
	5304	5303	0x1400+183		26		
	5305	5304	0x1400+184		27		
	5306	5305	0x1400+185		28		
	5307	5306	0x1400+186		29		
	5308	5307	0x1400+187		30		
	5309	5308	0x1400+188		31		
	5310	5309	0x1400+189		1		
	5311	5310	0x1400+190		2		
	5312	5311	0x1400+191		3		
	5313	5312	0x1400+192		4		
	5314	5313	0x1400+193		5		
	5315	5314	0x1400+194		6		
	5316	5315	0x1400+195		7		
	5317	5316	0x1400+196		8		
	5318	5317	0x1400+197		9		
	5319	5318	0x1400+198		10		
	5320	5319	0x1400+199		11		
	5321	5320	0x1400+200		12		
201	5341	5340	14DC			Monthly	Consumed energy
202	5342	5341	14DD				
203	5343	5342	14DE				
204	5344	5343	14DF				
205	5345	5344	14E0				
206	5346	5345	14E1				
207	5347	5346	14E2				
208	5348	5347	14E3				

209  
210

5349	5348	14E4			
5350	5349	14E5			
5351	5350	14E6			
5352	5351	14E7			
5353	5352	14E8			
5354	5353	14E9			
5355	5354	14EA			
5356	5355	14EB			
5357	5356	14EC			
5358	5357	14ED			
5359	5358	14EE			
5360	5359	14EF			
5361	5360	14F0			
5362	5361	14F1			
5363	5362	14F2			
5364	5363	14F3			
5365	5364	14F4			
5366	5365	14F5			
5367	5366	14F6			
5368	5367	14F7			
5369	5368	14F8			
5370	5369	14F9			

## Water pump controller and mainboard

address: #1;

time exceeds 300ms; the master defaults to data loss and resends the communication data.

### Parameter (W/R)

Range	Default Values	Remark	
0-OFF; 1-On	0	Remind that you need to update during operation, otherwise you don't need to update	Requires Power-down Memory
bit0:DHW, bit1:A/C Heating, bit2:A/C Cooling, bit0+bit1:A/C Heating+DHW, bit0+bit2:A/C Cooling+DHW	1	Remind that you need to update during operation, otherwise you don't need to update	Requires Power-down Memory
10~75°C	45	Remind that you need to update during operation, otherwise you don't need to update	Requires Power-down Memory
7~25°C	12	Remind that you need to update during operation, otherwise you don't need to update	Requires Power-down Memory
10~70°C (Value≥P35, Only electric heater operation)	45	Remind that you need to update during operation, otherwise you don't need to update	Requires Power-down Memory
18~35°C	21	Remind that you need to update during operation, otherwise you don't need to update	Requires Power-down Memory
0: Auto; 1-Manual On; 2-Manual Off	0	Remind that you need to update during operation, otherwise you don't need to update	Requires Power-down Memory
1-Forced Defrosting; 0-Stop Defrosting	0	Show Valid	
	0	Show Valid	
	0	Show Valid	
Monthly: 1-12; Daily: 1-31		Change Update	Show Valid
Hour: 0-23; Minute: 0-59		Change Update	Show Valid
bit0-14:reserved bit15:Commodity Inspection Mark			Reserved For Testing
100			
100			
0-Water Pump Off; 1-Water Pump On			

### Operation (R)

Range、Description		Remark
		Query Display

		Query Display
bit0: Standby, Shutdown; bit1: Power On State bit2: Downtime State bit3: Alarm Power On State bit4: Defrosting State bit8: Sterilization Status bit9: Antifreeze State bit10: floor drying bit11: PV Mode		
bit0: Four-way Valve bit1: Crankshaft Heating Belt bit2: Non bit3: C1 Pump bit4: C2 Pump bit5: C3 Pump bit6: E1 Electrical Heating bit7: E2 Electrical Heating bit8: G1 Valve bit9: G2 Valve bit10: Non bit11: Non bit12: Non		
bit0: K1 Input Disconnected bit1: K2 Input Disconnected bit2: K3 Input Disconnected bit3: K4 Input Disconnected bit4: K5 Input Disconnected bit5: K6 Input Disconnected bit6: K7 Input Disconnected bit7: K8 Input Disconnected		
	0-100	Query Display
Coil Temp(External Condenser Temp)	-30~97°C	Query Display
Exhaust Air Temp	-30~128°C	Query Display
Outdoor Ambient Temp	-30~97°C	Query Display
Return Air Temp	-30~97°C	Query Display
EVI Inlet Temp	-30~97°C	Query Display
EVI Outlet Temp	-30~97°C	Query Display
Plate liquid change pipe refrigerant temperature	-30~97°C	Query Display
Inlet Water Temp	-30~97°C	Query Display
Onlet Water Temp	-30~97°C	Query Display
Dhw Water Tank Temp	-30~97°C	Query Display
Water Flow	0.8-142.8L/min	Query Display
Main Circulation Temperature Differential	-30~97°C	Query Display
EVI Circulation Temperature Differential	-30~97°C	Query Display
High Pressure	20-45/ParG	Query Display
Low Pressure	0.1-1/ParG	Query Display
Compressor Running Frequency	0~120HZ	Query Display
DC Fan Motor 1 Rotating Speed	0-1500RPM	Query Display
DC Fan Motor 2 Rotating Speed	0-1500RPM	Query Display
EEV Steps	0-480	Query Display
EVI EEV Steps	0-480	Query Display
Compressor Target Frequency	0-100HZ	Query Display
Compressor Input Current	0-50A	Query Display
IPM Temp	-30~97°C	Query Display
AC Power Voltage	0-500V	Query Display
DC Power Voltage	0-1000V	Query Display

T6	-30~97°C	Query Display	
Indoor Temp(T2)	-30~97°C	Query Display	
Evaporator Temperature	-30~97°C	Query Display	
Condenser Temperature	-30~97°C	Query Display	
Valve 0-10	bit0--T3 coil temperature frequency limit bit1--high pressure frequency limit bit2-- AC voltage frequency limit bit3--exhaust temperature frequency limit bit4--AC current frequency limit bit5--drive protection frequency limit bit6--module temperature frequency limit	Query Display	
Hot Water	10-70°C		
Cooling Or Heating	Heating: 10-75°C; Cooling: 7-25°C		
bit0:Outdoor air temp sensor error bit1:Coil temp sensor error bit2:Suction temp sensor error bit3:EVI inlet temp sensor error bit4:EVI outlet temp sensor error bit5:Discharge temp sensor error bit6:DHW temp sensor error bit7:Outlet temp sensor error bit8:Inlet temp sensor error bit9:Liquid refrigerant temp sensor error bit10:High pressure sensor error bit11:Low pressure sensor error bit12:High pressure protection bit13:Low pressure protection bit14:Water flow error bit15:Communication error		Fault Display/Historical Faults	First Group
bit0:Discharge temp too high protection bit1:E18 EEPROM Parameter Error bit2:E99 Driver Board Communication Failure bit3:IPM abnormal protect bit4:E21 Voltage Failure bit5:Water temp differential too big bit6:DHW anti-freeze twice bit7:AC anti-freeze twice bit8:E56 Primary Side Xurrent Protection bit9:T6 temp sensor error bit10:Ambient temperature exceeds upper limit bit11:Inletwater temp.too high (Cooling) bit12:Room temp sensor error bit13:E58 T4 Low Ambient Temperature Protection bit14:Reserved bit15:Outletwater temp.too high (heating)		Fault Display/Historical Faults	Second Group

<p>bit0: Reserved  bit1: Reserved  bit2: Reserved  bit3: E36 Fan Motor Driver Communication Failure  bit4: Reserved  bit5: Reserved  bit6: E59 Inlet And Outlet Water Temp Reverse Connection Or Abnormal Four-way Valve  bit7: E40 Cooling Outlet Water Temp Low Protection  bit8: Reserved  bit9: Reserved  bit10: Reserved  bit11: E44 1# DC motor error  bit12: E45 2# DC motor error  bit13: Reserved  bit14: Reserved  bit15: Reserved</p>		<p>Fault Display/Historical Faults</p>	<p>Third Group</p>
<p>bit1: E50 Condenser Overheating Protection  bit2: E51 High refrigerant concentration protection</p>		<p>Fault Display/Historical Faults</p>	<p>Fourth Group</p>
<p>Bit0:IPM Failure  Bit1:Compressor Drive Failure (Drive Failure Except IPM)  Bit2:Compressor Overcurrent  Bit3:NA  Bit4:NA  Bit5:IPM Overtemperature Shutdown  Bit6:PFC Failure  Bit7:DC Busbar Overvoltage  Bit8:DC Busbar Undervoltage  Bit9:AC Input Voltage Overvoltage And Undervoltage  Bit10:AC Input Current Over-Current Shutdown  Bit11:NA  Bit12:NA  Bit13:NA  Bit14:NA  Bit15:Abnormal Communication With Main Control Board</p>		<p>Fault Display/Historical Faults</p>	<p>Fifth Group</p>
<p>Bit0:Compressor Current Frequency Reduction Alarm  Bit1:NA  Bit2:IPM Temperature Drop Alarm  Bit3:NA  Bit4: AC Input Current Frequency Reduction Alarm  Bit5: NA  Bit6-Bit15:NA</p>			
<p>0: No Fault  1: Acceleration Overcurrent  2: Deceleration Overcurrent  3: Constant Speed Overcurrent  4: Acceleration Overvoltage  5: Deceleration Overvoltage  6: Constant Speed Overvoltage  8: Out Of Sync Failure  9: Phase-out Fault  10: IPM Module Hardware Protection Failure  19: Abnormal Current Detection Circuit</p>			

1600-16000		Testing Reference
0-999		
<b>0-normal mode, 1-oil return</b>		
<b>0-65535</b>		
<b>0--100%</b>		
0-off mode 1-DHW mode 2-heating mode 4-cooling mode		
<b>0--1000%</b>		
100-->V100		
100-->V100		
0~1000		
0~1000		
0\1		

0-No Fault; 1--106 Show E01--E106;
0-No Fault; 1--106 Show E01--E106;
0-No Fault; 1--106 Show E01--E106;
0-No Fault; 1--106 Show E01--E106;
0-No Fault; 1--106 Show E01--E106;
0-No Fault; 1--106 Show E01--E106;
0-No Fault; 1--106 Show E01--E106;
0-No Fault; 1--106 Show E01--E106;

<b>Operation (R)</b>		
Range		Remark
0/1		
0-120		
0/1		
0-1500RPM		

Password Is Required To

0/1			
0-1500RPM			
0/1			
0-500			
0/1			
0-500			
0/1			
	0x10/0x06/0x03		Manual Operation
	0x10/0x06/0x03		
	0x10/0x06/0x03		
	0x10/0x06/0x03		

### meter register operation (W/R)

Range、 Description	Value	Remark
0: Off; 1: On	--	Hexadecimal display
0: Off 1: DHW 2: A/C Heating 3: A/C Heating +DHW 4: A/C Cooling 5: A/C Cooling +DHW	actual value	Hexadecimal display
1~15°C	*0.1=actual value	Decimal display
1~15°C	*0.1=actual value	Decimal display
35~75°C	*0.1=actual value	Decimal display
-10~10°C	*0.1=actual value	Decimal display
1~99 days	actual value	Decimal display
0~23 hour	actual value	Decimal display
5~99 minutes	actual value	Decimal display
50~70°C	*0.1=actual value	Decimal display
0: Automatic 1: Manual 2: Invalid	actual value	Decimal display
0~23h	actual value	Decimal display
0~23h	actual value	Decimal display
0: invalid, 1; valid	actual value	Decimal display
0: invalid, 1; valid	actual value	Decimal display
0: invalid, 1; valid	actual value	Decimal display
0: non-stop 1: stop at temperature	actual value	Decimal display
5~50 minutes	actual value	Decimal display
-30~20°C	*0.1=actual value	Decimal display
-30~20°C	*0.1=actual value	Decimal display
1~15°C	*0.1=actual value	Decimal display
-15~5°C	*0.1=actual value	Decimal display
0: no defrosting, 1/2/3/4/(interval X4)	actual value	Decimal display
15~99 minutes	actual value	Decimal display

0-automatic defrosting, 1-forced defrosting	actual value	Decimal display
-8~5°C	*0.1=actual value	Decimal display
5~30°C	*0.1=actual value	Decimal display
2~20 minutes	actual value	Decimal display
0: None 1: Look-up table 2: Manual 3: Return air superheat 4: Exhaust superheat	actual value	Decimal display
50~480	actual value	Decimal display
50~480	actual value	Decimal display
0~70°C	*0.1=actual value	Decimal display
0~999min	actual value	Decimal display
2~15°C	*0.1=actual value	Decimal display
3~18°C	*0.1=actual value	Decimal display
0~999	actual value	Decimal display
0: manual, 1: automatic	actual value	Decimal display
10~100 Hz	actual value	Decimal display
1~50A	*0.1=actual value	Decimal display
1~50A	*0.1=actual value	Decimal display
1~50A	*0.1=actual value	Decimal display
50~120Hz	actual value	Decimal display
0~90Hz	actual value	Decimal display
30~90Hz	actual value	Decimal display
2~10(percentage of the highest set frequency)	actual value	Decimal display
0~99(display value*0.1)	*0.1=actual value	Decimal display
0~99	actual value	Decimal display
20- 45bar(display value*0.1)	*0.1=actual value	Decimal display
20- 45bar(display value*0.1)	*0.1=actual value	Decimal display
20- 45bar(display value*0.1)	*0.1=actual value	Decimal display
0.1-1.0 Bar(display value*0.01)	*0.1=actual value	Decimal display
1- 10bar(display value*0.1)	*0.1=actual value	Decimal display
0.1-5 Bar(display value*0.01)	*0.1=actual value	Decimal display
100-125°C	actual value	Decimal display
3~8°C	*0.1=actual value	Decimal display
Corresponding to 20~80% of the speed	actual value	Decimal display
500~1500rpm(display value*10)	actual value	Decimal display
3~80L/min, step 1	actual value	Decimal display
0: hot and cold 1: cold only 2: hot only	actual value	Decimal display
0: invalid, 1: valid	actual value	Decimal display
0-480	actual value	Decimal display
0: auxiliary pump, 1: indoor circulation pump	actual value	Decimal display
	actual value	Decimal display
0: invalid, 1: valid	actual value	Decimal display
0: water flow switch, 1: flow meter	actual value	Decimal display
0:AC 1: First DC 2:Second DC 3:Two DC	actual value	Decimal display
0: invalid, 1: valid	actual value	Decimal display
0: manual, 1: automatic	actual value	Decimal display

0~1500rpm(display value*10)	actual value	Decimal display
0: pressure sensor, 1: pressure switch	actual value	Decimal display
0: None 1: Look-up table 2: Manual 3: Automatic	actual value	Decimal display
40~480	actual value	Decimal display
40~480	actual value	Decimal display
-5~10°C	*0.1=actual value	Decimal display
-5~10°C	*0.1=actual value	Decimal display
	actual value	Decimal display
0-10(display value*0.1)	*0.1=actual value	Decimal display
0- Auxiliary electric heating 1 second heating source 2 combined with electric heater 3 combined with boiler	actual value	Decimal display
-30~20°C	*0.1=actual value	Decimal display
0-No 1 timing 2 temperature difference 3 timing + temperature difference	actual value	Decimal display
4~20°C	*0.1=actual value	Decimal display
0°C~20°C	*0.1=actual value	Decimal display
0°C~20°C	*0.1=actual value	Decimal display
0: no recovery, 1: recovery	actual value	Decimal display
0: DHW auxiliary water pump 1: DHW return water pump	actual value	Decimal display
0~20(display value*0.1)	*0.1=actual value	Decimal display
0~20(display value*1)	actual value	Decimal display
0°C~20°C	*0.1=actual value	Decimal display
-5-10°C(display value*0.1)	*0.1=actual value	Decimal display
-5-10°C(display value*0.1)	*0.1=actual value	Decimal display
-5-10°C(display value*0.1)	*0.1=actual value	Decimal display
-5-10°C(display value*0.1)	*0.1=actual value	Decimal display
-5-10°C(display value*0.1)	*0.1=actual value	Decimal display
10~100Hz	actual value	Decimal display
0 normal 1 reversed	actual value	Decimal display
0 normal 1 reversed	actual value	Decimal display
0 normal 1 reversed	actual value	Decimal display
0~480	actual value	Decimal display
8-20°C	*0.1=actual value	Decimal display
0-300s	actual value	Decimal display







Red Pillar Year 1	67
Red Pillar Year 2	68
Red Pillar Year 3	69
Red Pillar Year 4	70
Red Pillar Year 5	71
Red Pillar Year 6	72
Red Pillar Year 7	73
Red Pillar Year 8	74

Red Pillar Year 9
Red Pillar Year 10
Green Pillar Year 1
Green Pillar Year 2
Green Pillar Year 3
Green Pillar Year 4
Green Pillar Year 5
Green Pillar Year 6
Green Pillar Year 7
Green Pillar Year 8
Green Pillar Year 9
Green Pillar Year 10
Black Pillar Year 1
Black Pillar Year 2
Black Pillar Year 3
Black Pillar Year 4
Black Pillar Year 5
Black Pillar Year 6
Black Pillar Year 7
Black Pillar Year 8
Black Pillar Year 9
Black Pillar Year 10

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