

9.12.2024

CLIMATIX MODBUSREGISTERS

	ID	Read/ Write	Register type 1)	Register address	Unit	Resolution (divider) 2)	Device 1 (master)	Devices 2, 3 etc. (slave)
Operating temps:								
Cascade flow temp	B10	R	3x	901	°C	10	x	
Cascade flow temp from BAS. See 7)	B10	R/W	4x	901	°C	10	x	
System flow temp	B11	R	3x	805	°C	10	x	
Common return temp	B70	R	3x	905	°C	10	x	
Common return temp	B72	R	3x	906	°C	10	x	
Outside temp	B9	R	3x	101	°C	10	x	
Tank bottom temperature	B15	R	3x	908	°C	10	x	
Outside temp from BAS. See 7)		R/W	4x	902	°C	10	x	
Tank bottom temperature from BAS. See 7)	B15	R/W	4x	711	°C	10	x	

Readable setpoints:

Cascade temp. setpoint	B10	R	3x	902	°C	10	x	
System temp. setpoint	B11	R	3x	815	°C	10	x	

Heat pump information

Heat pump flow temp	B21	R	3x	201	°C	10	x	x
Heat pump return temp	B71	R	3x	202	°C	10	x	x
Source circuit in	B91	R	3x	301	°C	10	x	x
Source circuit out	B92	R	3x	302	°C	10	x	x
Hot gas	B81	R	3x	303	°C	10	x	x
Hot gas 1 (EVI)		R	3x	321	°C	10	x	x
Hot gas 2 (EVI)		R	3x	322	°C	10	x	x
Evaporator pressure	H82	R	3x	304	bar	10	x	x
Condenser pressure	H83	R	3x	305	bar	10	x	x
Source pump status	Q8	R	3x	309	0=Off / 1=On		x	x
Source restriction valve / Source pump speed	Y8 / Q8	R	3x	306	%	1	x	x
Suction gas temp	B85	R	3x	307	°C	10	x	x
Condenser temp difference		R	3x	203	°C	10	x	x
Temp diff evaporator		R	3x	308	°C	10	x	x
Supply pump speed	Q9	R	3x	204	%	1	x	x
Supply pump status	Q9	R	3x	205	0=Off / 1=On		x	x
Heating request		R	3x	213	%	1	x	x
Current capacity		R	3x	214	%	1	x	x
Heating circuit pressure	H11	R	3x	215	bar	10	x	x
Source circuit pressure	H21	R	3x	320	bar	10	x	x
Auxiliary pressure	H31	R	3x	113	bar	10	x	x
Refriq. Liquid temp	B84	R	3x	328	°C	10	x	x
Compressor oil temperature		R	3x	1266	°C	10	x	x
Crank case heater status		R	3x	1268	0=Off / 1=On		x	x

Additional heat source information:

Additional heat source status	K27	R	3x	806	0=Off / 1=On		x	
Additional heat source current capacity	TV27	R	3x	807	%	1	x	

Status data:

Compressor status info	K1	R	3x	310	0=Off / 1=On		x	x
Compressor speed (inverter)	K1	R	3x	311	%	1	x	x
Compressor status info	K2	R	3x	315	0=Off / 1=On		x	x
Compressor speed (inverter)	K2	R	3x	316	%	1	x	x
DHW resistor status	K6	R	3x	703	0=Off / 1=On		x	
Electric resistor status	K25 / K26	R	3x	801	See 3)		x	
Electric resistor status	K28 / K29	R	3x	808	See 3)		x	
Change-over valve status	Y3	R	3x	704	0=heating/1=DHW		x	

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Common Source pump speed	Q8C	R	3x	903	%	1	x	
Common Source pump status	Q8C	R	3x	904	0=Off / 1=On		x	
Expansion valve		R	3x	909	%	1	x	x

Energy monitoring:

Cumulative heat production, heating		R	3x	206	kWh (32Bit data) See 9)	1	x	x
Cumulative heat production, DHW		R	3x	208	kWh (32Bit data)	1	x	x
Cumulative system heat production		R	3x	210	kWh (32Bit data)	1	x	x
Cumulative energy consumption, heating		R	3x	102	kWh (32Bit data)	1	x	x
Cumulative energy consumption, DHW		R	3x	104	kWh (32Bit data)	1	x	x
Cumulative system energy consumption		R	3x	106	kWh (32Bit data)	1	x	x
Cumulative COP, heating		R	3x	108		10	x	
Cumulative COP, DHW		R	3x	109		10	x	
Cumulative system COP		R	3x	110		10	x	
Momentary heat production		R	3x	212	kW	10	x	x
Momentary energy consumption		R	3x	111	kW	10	x	x
Momentary COP		R	3x	112		10	x	x
Current L1		R	3x	114	A	10	x	x
Current L2		R	3x	115	A	10	x	x
Current L3		R	3x	116	A	10	x	x
Voltage L1		R	3x	117	V	10	x	x
Voltage L2		R	3x	118	V	10	x	x
Voltage L3		R	3x	119	V	10	x	x

Run monitoring:

Compressor running time	K1	R	3x	312	h (32Bit data)	1	x	x
Compressor start-up counter	K1	R	3x	314	pcs	1	x	x
Compressor running time	K2	R	3x	317	h (32Bit data)	1	x	x
Compressor start-up counter	K2	R	3x	319	pcs	1	x	x
Electric resistor running time DHW	K6	R	3x	705	h (32Bit data)	1	x	
Electric resistor start-up counter DHW	K6	R	3x	707	pcs	1	x	
Electric resistor running time	K25/ K26	R	3x	802	h (32Bit data)	1	x	x
Electric resistor start-up counter	K25/ K26	R	3x	804	pcs	1	x	x
Electric resistor running time	K28/ K29	R	3x	809	h (32Bit data)	1	x	
Electric resistor start-up counter	K28/ K29	R	3x	811	pcs	1	x	

Domestic hot water

DHW storage tank temp (upper sensor)	B2	R	3x	701	°C	10	x	
DHW storage tank temp (upper sensor) VAK:sta. Katso 7)	B2	R/W	4X	709	°C	10	x	
DHW storage tank temp (lower sensor)	B3	R	3x	702	°C	10	x	
DHW storage tank temp (lower sensor) from BAS. See 7)	B3	R/W	4x	708	°C	10	x	
DHW flow temp	B38	R	3x	708	°C	10	x	
DHW circulation temp	B39	R	3x	709	°C	10	x	

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DHW temp setpoint Protection	B3	R/W	4x	702	°C	10	x	
DHW temp setpoint Reduced	B3	R/W	4x	703	°C	10	x	
DHW temp setpoint Normal	B3	R/W	4x	712	°C	10	x	
DHW temp setpoint Comfort	B3	R/W	4x	704	°C	10	x	
Domestic hot water Operating mode		R/W	4x	701	See 4)		x	
DHW flow temp. set point		R/W	4x	705	°C	10	x	
DHW charge hysteresis		R/W	4x	706	K	10	x	
DHW charge set point correction		R/W	4x	707	K	10	x	
DHW mixing valve	TV38	R	3x	713	%	1	x	
DHW circulation pump	Q4	R	3x	714	0=Off / 1=On	1	x	

Writable setpoints: Heat pump(s)

Heat pump operation mode		R/W	4x	105	See 5)	1	x	x
Emergency stop		R/W	4x	101	0 = Emergency stop 1 = Normal operation		x	x
Setpoint heat pump °C		R/W	4x	104	°C	10	x	
Setpoint heat pump %		R/W	4x	103	%	1	x	
Supply circuit activation		R/W	4x	102	0=Off / 1=On		x	
External free cooling		R/W	4x	106	0=Off / 1=On		x	x
Heat pump switching differential		R/W	4x	111	°C	10	x	
Source pump minimum speed		R/W	4x	331	%	1	x	x
Source pump maximum speed		R/W	4x	333	%	1	x	x
Source circuit temp. difference (dT) set point		R/W	4x	335	K	10	x	x
Supply pump minimum speed		R/W	4x	204	%	1	x	x
Supply pump maximum speed		R/W	4x	206	%	1	x	x
Supply circuit temp. difference (dT) set point		R/W	4x	208	K	10	x	x
Source circuit temp. set point	B91/ B92	R/W	4x	210	°C		x	x

Heating circuit 1

Circulation pump	Q2	R	3x	501	0=Off / 1=On	1	x	
Mixing valve	TV1	R	3x	502	%	10	x	
Room temp	B51	R	3x	503	°C	10	x	
Flow temp	B1	R	3x	504	°C	10	x	
Set point value		R/W	4x	501	°C	10	x	
Reduced setpoint		R/W	4x	502	°C	10	x	
Protection setpoint		R/W	4x	503	°C	10	x	
Normal setpoint		R/W	4x	523	°C	10	x	
Supply water min. value		R/W	4x	504	°C	10	x	
Supply water max. value		R/W	4x	505	°C	10	x	
Summer/winter outside temp set point		R/W	4x	506	°C	10	x	
Summer/winter time constant		R/W	4x	507	h	1	x	
Summer/winter setting		R/W	4x	508	See 8)	1	x	
Building time constant		R/W	4x	509	h	1	x	
Heating curve – X1		R/W	4x	511	°C	10	x	
Heating curve – Y1		R/W	4x	512	°C	10	x	
Heating curve – X2		R/W	4x	513	°C	10	x	
Heating curve – Y2		R/W	4x	514	°C	10	x	
Heating curve – X3		R/W	4x	515	°C	10	x	
Heating curve – Y3		R/W	4x	516	°C	10	x	
Heating curve – X4		R/W	4x	517	°C	10	x	

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Heating curve – Y4		R/W	4x	518	°C	10	x
Heating curve – X5		R/W	4x	519	°C	10	x
Heating curve – Y5		R/W	4x	520	°C	10	x
Supply water min. value		R/W	4x	504	°C	10	x
Supply water max. value		R/W	4x	505	°C	10	x
Set point correction		R/W	4x	521	K	10	x
Flow setpoint		R/W	4x	522	°C	10	x
Cooling curve – X1		R/W	4x	524	°C	10	x
Cooling curve – Y1		R/W	4x	525	°C	10	x
Cooling curve – X2		R/W	4x	526	°C	10	x
Cooling curve – Y2		R/W	4x	527	°C	10	x
Cooling curve – X3		R/W	4x	528	°C	10	x
Cooling curve – Y3		R/W	4x	529	°C	10	x
Cooling curve – X4		R/W	4x	530	°C	10	x
Cooling curve – Y4		R/W	4x	531	°C	10	x
Cooling curve – X5		R/W	4x	532	°C	10	x
Cooling curve – Y5		R/W	4x	533	°C	10	x
Summer/winter outside temp set point - Cooling		R/W	4x	534	°C	10	x
Summer/winter setting - Cooling		R/W	4x	535	See 8)	1	x
Change-over valve - Combi circuit 1	Y20	R	3x	505	0=Heating / 1=Cooling	1	x

Heating circuit 2

Circulation pump	Q6	R	3x	601	0=Off / 1=On	1	x
Mixing valve	TV2	R	3x	602	%	10	x
Room temp	B52	R	3x	603	°C	10	x
Flow temp	B12	R	3x	604	°C	10	x
Set point value		R/W	4x	601	°C	10	x
Reduced setpoint		R/W	4x	602	°C	10	x
Protection setpoint		R/W	4x	603	°C	10	x
Normal setpoint		R/W	4x	623	°C	10	x
Supply water min. value		R/W	4x	604	°C	10	x
Supply water max. value		R/W	4x	605	°C	10	x
Summer/winter outside temp set point		R/W	4x	606	°C	10	x
Summer/winter time constant		R/W	4x	607	h	1	x
Summer/winter setting		R/W	4x	608	See 8)	1	x
Building time constant		R/W	4x	609	h	1	x
Heating curve – X1		R/W	4x	611	°C	10	x
Heating curve – Y1		R/W	4x	612	°C	10	x
Heating curve – X2		R/W	4x	613	°C	10	x
Heating curve – Y2		R/W	4x	614	°C	10	x
Heating curve – X3		R/W	4x	615	°C	10	x
Heating curve – Y3		R/W	4x	616	°C	10	x
Heating curve – X4		R/W	4x	617	°C	10	x
Heating curve – Y4		R/W	4x	618	°C	10	x
Heating curve – X5		R/W	4x	619	°C	10	x
Heating curve – Y5		R/W	4x	620	°C	10	x
Set point correction		R/W	4x	621	K	10	x
Flow setpoint		R/W	4x	622	°C	10	x
Cooling curve – X1		R/W	4x	624	°C	10	x
Cooling curve – Y1		R/W	4x	625	°C	10	x
Cooling curve – X2		R/W	4x	626	°C	10	x
Cooling curve – Y2		R/W	4x	627	°C	10	x
Cooling curve – X3		R/W	4x	628	°C	10	x
Cooling curve – Y3		R/W	4x	629	°C	10	x
Cooling curve – X4		R/W	4x	630	°C	10	x
Cooling curve – Y4		R/W	4x	631	°C	10	x
Cooling curve – X5		R/W	4x	632	°C	10	x
Cooling curve – Y5		R/W	4x	633	°C	10	x
Summer/winter outside temp set point - Cooling		R/W	4x	634	°C	10	x
Summer/winter setting - Cooling		R/W	4x	635	See 8)	1	x

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Change-over valve - Combi circuit 2	Y20	R	3x	605	0=Heating / 1=Cooling	1	x	

Heating circuit 3

Circulation pump	Q20	R	3x	1001	0=Off / 1=On	1	x	
Mixing valve	TV3	R	3x	1002	%	10	x	
Room temp	B53	R	3x	1003	°C	10	x	
Flow temp	B14	R	3x	1004	°C	10	x	
Set point value		R/W	4x	1001	°C	10	x	
Reduced setpoint		R/W	4x	1002	°C	10	x	
Protection setpoint		R/W	4x	1003	°C	10	x	
Normal setpoint		R/W	4x	1023	°C	10	x	
Supply water min. value		R/W	4x	1004	°C	10	x	
Supply water max. value		R/W	4x	1005	°C	10	x	
Summer/winter outside temp set point		R/W	4x	1006	°C	10	x	
Summer/winter time constant		R/W	4x	1007	h	1	x	
Summer/winter setting		R/W	4x	1008	See 8)	1	x	
Building time constant		R/W	4x	1009	h	1	x	
Heating curve – X1		R/W	4x	1011	°C	10	x	
Heating curve – Y1		R/W	4x	1012	°C	10	x	
Heating curve – X2		R/W	4x	1013	°C	10	x	
Heating curve – Y2		R/W	4x	1014	°C	10	x	
Heating curve – X3		R/W	4x	1015	°C	10	x	
Heating curve – Y3		R/W	4x	1016	°C	10	x	
Heating curve – X4		R/W	4x	1017	°C	10	x	
Heating curve – Y4		R/W	4x	1018	°C	10	x	
Heating curve – X5		R/W	4x	1019	°C	10	x	
Heating curve – Y5		R/W	4x	1020	°C	10	x	
Set point correction		R/W	4x	1021	K	10	x	
Flow setpoint		R/W	4x	1022	°C	10	x	
Cooling curve – X1		R/W	4x	1024	°C	10	x	
Cooling curve – Y1		R/W	4x	1025	°C	10	x	
Cooling curve – X2		R/W	4x	1026	°C	10	x	
Cooling curve – Y2		R/W	4x	1027	°C	10	x	
Cooling curve – X3		R/W	4x	1028	°C	10	x	
Cooling curve – Y3		R/W	4x	1029	°C	10	x	
Cooling curve – X4		R/W	4x	1030	°C	10	x	
Cooling curve – Y4		R/W	4x	1031	°C	10	x	
Cooling curve – X5		R/W	4x	1032	°C	10	x	
Cooling curve – Y5		R/W	4x	1033	°C	10	x	
Summer/winter outside temp set point - Cooling		R/W	4x	1034	°C	10	x	
Summer/winter setting - Cooling		R/W	4x	1035	See 8)	1	x	
Change-over valve - Combi circuit 3	Y20	R	3x	1005	0=Heating / 1=Cooling	1	x	

Cooling

Flow temp - primary	B43	R	3x	1201	°C	10	x	
Cooling set point	B43	R	3x	1202	°C	10	x	
Pre-controller valve	TV40	R	3x	1203	%	1	x	
Cooling opening mode		R	3x	1204	See 10)	1	x	
Cooling tank temp	B40	R	3x	1205	°C	10	x	
Cooling tank temp from BAS. See 7)	B40	R/W	4x	1216	°C	10	x	
Cooling tank temp set point	B40	R/W	3x	1206	°C	10	x	
Flow temp - secondary	B41	R	3x	1207	°C	10	x	
Common source temp in	B42	R	3x	1208	°C	10	x	
Change-over valve - passive cooling	Y41	R	3x	1209	0=Heating / 1=Cooling	1	x	
Change-over valve - active cooling	Y42	R	3x	1210	0=Heating / 1=Cooling	1	x	
Valve / transfer pump - condensor discharge	Y43	R	3x	1211	0=Off / 1=On	1	x	
Cooling transfer pump	Q40	R	3x	1212	0=Off / 1=On	1	x	

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Control valve - condenser discharge	TV45	R	3x	1213	%	1	x	
Cooling heat exchanger - freeze protection	B41	R	3x	1214	0=Normal/ 1=Alarm	1	x	
Cooling tank - freeze protection	B40	R	3x	1215	0=Off / 1=On	1	x	
Cooling tank - freeze protection	B40	R	3x	1216	0=Normal/ 1=Alarm	1	x	
Q40 feedback		R	3x	1220	0=Off / 1=On	1	x	
Cooling activation		R/W	4x	1201	0=Off / 1=On	10	x	
Cooling set point		R/W	4x	1202	°C	1	x	
Active cooling - set point correction	B40	R/W	4x	1204	K	10	x	
Condenser discharge - set point correction	B70	R/W	4x	1210	K	10	x	
Condenser discharge - set point	B70	R/W	4x	1211	°C	10	x	
Active cooling - condenser dT set point		R/W	4x	1212	K	10	x	
Passive cooling - source pump speed		R/W	4x	1213	%	10	x	
Active cooling - evaporator dT set point		R/W	4x	1214	K	1	x	

Cooling Circuit 1

Circulation pump	Q24	R	3x	1251	0=Off / 1=On	1	x	
Transfer pump	Q28	R	3x	1252	0=Off / 1=On	1	x	
Mixing valve	TV11	R	3x	1253	%	1	x	
Room temp		R	3x	1254	°C	10	x	
Flow temp	B16	R	3x	1255	°C	10	x	
Room humidity		R	3x	1256	%	10	x	
Comfort setpoint		R/W	4x	1251	°C	10	x	
Reduced setpoint		R/W	4x	1252	°C	10	x	
Protection setpoint		R/W	4x	1253	°C	10	x	
Normal setpoint		R/W	4x	1272	°C	11	x	
Supply water min. value		R/W	4x	1254	°C	10	x	
Supply water max. value		R/W	4x	1255	°C	10	x	
Summer/winter outside temp set point		R/W	4x	1256	°C	10	x	
Summer/winter time constant		R/W	4x	1257	h	1	x	
Summer/winter setting		R/W	4x	1258	See 8)	1	x	
Building time constant		R/W	4x	1259	h	1	x	
Heating curve – X1		R/W	4x	1260	°C	10	x	
Heating curve – Y1		R/W	4x	1261	°C	10	x	
Heating curve – X2		R/W	4x	1262	°C	10	x	
Heating curve – Y2		R/W	4x	1263	°C	10	x	
Heating curve – X3		R/W	4x	1264	°C	10	x	
Heating curve – Y3		R/W	4x	1265	°C	10	x	
Heating curve – X4		R/W	4x	1266	°C	10	x	
Heating curve – Y4		R/W	4x	1267	°C	10	x	
Heating curve – X5		R/W	4x	1268	°C	10	x	
Heating curve – Y5		R/W	4x	1269	°C	10	x	
Setpoint correction		R/W	4x	1270	K	10	x	
Flow setpoint		R	4x	1271	°C	10	x	
Flow setpoint from BAS. See 7)		R/W	4x	1273	°C	11	x	

Cooling Circuit 2

Circulation pump	Q26	R	3x	1257	0=Off / 1=On	1	x	
Transfer pump	Q28	R	3x	1258	0=Off / 1=On	1	x	
Mixing valve	TV22	R	3x	1259	%	1	x	
Room temp		R	3x	1260	°C	10	x	
Flow temp	B26	R	3x	1261	°C	10	x	
Room humidity		R	3x	1262	%	10	x	
Comfort setpoint		R/W	4x	1274	°C	10	x	

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Reduced setpoint		R/W	4x	1275	°C	10	x	
Protection setpoint		R/W	4x	1276	°C	10	x	
Normal setpoint		R/W	4x	1296	°C	11	x	
Supply water min. value		R/W	4x	1278	°C	10	x	
Supply water max. value		R/W	4x	1279	°C	10	x	
Summer/winter outside temp set point		R/W	4x	1280	°C	10	x	
Summer/winter time constant		R/W	4x	1281	h	1	x	
Summer/winter setting		R/W	4x	1282	See 8)	1	x	
Building time constant		R/W	4x	1283	h	1	x	
Heating curve – X1		R/W	4x	1284	°C	10	x	
Heating curve – Y1		R/W	4x	1285	°C	10	x	
Heating curve – X2		R/W	4x	1286	°C	10	x	
Heating curve – Y2		R/W	4x	1287	°C	10	x	
Heating curve – X3		R/W	4x	1288	°C	10	x	
Heating curve – Y3		R/W	4x	1289	°C	10	x	
Heating curve – X4		R/W	4x	1290	°C	10	x	
Heating curve – Y4		R/W	4x	1291	°C	10	x	
Heating curve – X5		R/W	4x	1292	°C	10	x	
Heating curve – Y5		R/W	4x	1293	°C	10	x	
Setpoint correction		R/W	4x	1294	K	10	x	
Flow setpoint		R	4x	1295	°C	10	x	
Flow setpoint from BAS. See 7)		R/W	4x	1297	°C	11	x	

Superheat circuit

Superheat pump		R	3x	1101	0=Off / 1=On		x	x
Superheat circuit flow temp.	B36	R	3x	1102	°C	10	x	x
Superheat circuit return temp.	B37	R	3x	1103	°C	10	x	x
Superheat circuit dT		R	3x	1104	K	10	x	x
Superheat tank temp.	B95	R	3x	1105	°C	10	x	x
Superheat circuit set point	B3 / B95	R/W	4x	1106	°C	10	x	x
Superheat circuit demand correction		R/W	4x	1107	K	10	x	x
Startup hysteresis		R/W	4x	1108	K	10	x	x
Superheat circuit pump speed	Q35	R	3x	1109	%		x	x
Superheat circuit pump speed	Q35	R	3x	1110	h (32Bit data)		x	x
Superheat circuit pump dT set point	Q35	R/W	4x	1112	K	10	x	x
Superheat circuit pump min. speed	Q35	R/W	4x	1113	%		x	x
Superheat circuit pump max. speed	Q35	R/W	4x	1114	%		x	x
Superheat tank ele. heater set point	K90	R/W	4x	1115	°C	10	x	x
Superheat tank ele. heater status	K90	R	3x	1116	0=Off / 1=On		x	x
Superheat tank ele. heater start- up counter	K90	R	3x	1118	pcs		x	x
Superheat tank ele. heater op. Hours	K90	R	3x	1119	h (32Bit data)		x	x
Superheat circuit flow	FM30	R	3x	1121	l/min	10	x	x
Superheat circuit heat. power		R	3x	1122	kW		x	x
Superheat circuit heating energy (cum.)		R	3x	1123	kWh (32Bit data)		x	x
Superheat circuit tank temp. from upper level automation See 7)	B95	R/W	4x	1124	°C	10	x	x

Enclosure

Internal temperature		R	3x	1263	°C	10	x	x
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CLIMATIX MODBUSREGISTERS

	ID	Read/ Write	Register type 1)	Register address	Unit	Resolution (divider) 2)	Device 1 (master)	Devices 2, 3 etc. (slave)
Enclosure pressure difference		R	3x	1264	Pa	10	x	x
Gas detector		R	3x	1265	%LFL	1	x	x
Exhaust fan speed		R	3x	1267	%	1	x	x

Alarm registers

Alarm status		R	3x	199	See 6)			
Alarm ack		R/W	0x	101	1=ACK		x	x
DHW storage tank temp (upper sensor)	B2	R	1x	701	0=Normal/ 1=Alarm		x	
DHW storage tank temp (lower sensor)	B3	R	1x	702	0=Normal/ 1=Alarm		x	
DHW flow temp	B38	R	1x	708	0=Normal/ 1=Alarm		x	
DHW circulation temp	B39	R	1x	709	0=Normal/ 1=Alarm		x	
Cascade flow temp	B10	R	1x	901	0=Normal/ 1=Alarm		x	
System flow temp	B11	R	1x	805	0=Normal/ 1=Alarm		x	
Outside temp	B9	R	1x	101	0=Normal/ 1=Alarm		x	
Heat circuit 2 flow temp.	B12	R	1x	604	0=Normal/ 1=Alarm		x	
Heat circuit 3 flow temp.	B14	R	1x	1004	0=Normal/ 1=Alarm		x	
Common Source pump	Q8C	R	1x	903	0=Normal/ 1=Alarm		x	
Change-over valve	Q3	R	1x	704	0=Normal/ 1=Alarm		x	x
DHW resistor	K6	R	1x	703	0=Normal/ 1=Alarm		x	
Electric resistor	K25 /K26	R	1x	801	0=Normal/ 1=Alarm		x	
Compressor 1 alarm	K1	R	1x	310	0=Normal/ 1=Alarm		x	x
Compressor 1 feedback alarm	K1	R	1x	311	0=Normal/ 1=Alarm		x	x
Compressor 1 alarm	K2	R	1x	315	0=Normal/ 1=Alarm		x	x
Compressor 1 feedback alarm	K2	R	1x	316	0=Normal/ 1=Alarm		x	x
Expansion valve		R	1x	314	0=Normal/ 1=Alarm		x	x
Flow temp heat pump	B21	R	1x	201	0=Normal/ 1=Alarm		x	x
Return temp heat pump	B71	R	1x	202	0=Normal/ 1=Alarm		x	x
Source circuit in	B91	R	1x	301	0=Normal/ 1=Alarm		x	x
Source circuit out	B92	R	1x	302	0=Normal/ 1=Alarm		x	x
Hot gas temp	B81	R	1x	303	0=Normal/ 1=Alarm		x	x
Evaporator pressure	H82	R	1x	304	0=Normal/ 1=Alarm		x	x
Condenser pressure	H83	R	1x	305	0=Normal/ 1=Alarm		x	x
Source control valve / source pump	Y8/ Q8	R	1x	306	0=Normal/ 1=Alarm		x	x
Suction gas temp	B85	R	1x	307	0=Normal/ 1=Alarm		x	x
Charge pump	Q9	R	1x	204	0=Normal/ 1=Alarm		x	x
Commun. Electric.mtr		R	1x	102	0=Normal/ 1=Alarm		x	x
Num.IO out of s.		R	1x	193	0=Normal/ 1=Alarm		x	x

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ID	Read/ Write	Register type 1)	Register address	Unit	Resolution (divider) 2)	Device 1 (master)	Devices 2, 3 etc. (slave)
Num.IO manual		R	1x	194	0=Normal/ 1=Alarm	x	x
Fault Ext.IO-m.		R	1x	197	0=Normal/ 1=Alarm	x	x
Comm.mod.changed		R	1x	198	0=Normal/ 1=Alarm	x	x
Archive full		R	1x	196	0=Normal/ 1=Alarm	x	x
High alarm		R	1x	191	0=Normal/ 1=Alarm	x	x
Low alarm		R	1x	192	0=Normal/ 1=Alarm	x	x
Max.high press.		R	1x	321	0=Normal/ 1=Alarm	x	x
Min.high press.		R	1x	322	0=Normal/ 1=Alarm	x	x
MOP		R	1x	323	0=Normal/ 1=Alarm	x	x
LOP		R	1x	324	0=Normal/ 1=Alarm	x	x
Press.ratio max.		R	1x	325	0=Normal/ 1=Alarm	x	x
Press.ratio.min.		R	1x	326	0=Normal/ 1=Alarm	x	x
Expansion open		R	1x	329	0=Normal/ 1=Alarm	x	x
High pr.detect.		R	1x	327	0=Normal/ 1=Alarm	x	x
Low pr.detect.		R	1x	328	0=Normal/ 1=Alarm	x	x
Evaporator temp.		R	1x	330	0=Normal/ 1=Alarm	x	x
Condensing temp.		R	1x	331	0=Normal/ 1=Alarm	x	x
Superheat		R	1x	332	0=Normal/ 1=Alarm	x	x
Inverter communication (LS Control)		R	1x	333	0=Normal/ 1=Alarm	x	x
Inverter communication (KOSTAL)		R	1x	334	0=Normal/ 1=Alarm	x	x
No press.change1		R	1x	335	0=Normal/ 1=Alarm	x	x
No compr.avail.		R	1x	336	0=Normal/ 1=Alarm	x	x
All compr.in al.		R	1x	337	0=Normal/ 1=Alarm	x	x
Cascade master communication		R	1x	902	0=Normal/ 1=Alarm		x
Cascade slave 1 communication		R	1x	904	0=Normal/ 1=Alarm	x	
Cascade slave 2 communication		R	1x	905	0=Normal/ 1=Alarm	x	

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CLIMATIX MODBUSREGISTERS

ID	Read/ Write	Register type 1)	Register address	Unit	Resolution (divider) 2)	Device 1 (master)	Devices 2, 3 etc. (slave)
1) 0x = Coil 1x = Discrete input 3x = Input register 4x = Holding register Coil registers (0x) can be read using function code 01 and written using function codes 05 (single) and 15 (multiple). Discrete inputs (1x) can be read using function code 02. Input registers (3x) can be read using function code 04. Holding registers (4x) can be read using function code 03 and written using function codes 06 (single) and 16 (multiple).							
2) The value read from the register must be divided by the number in the resolution column so that the values will be displayed correctly i							
3) 0 = 1 and 2 off 1 = 1 on and 2 off 2 = 1 off and 2 on 3 = 1 and 2 on							
4) 0 = Auto 1 = Protection 2 = Reduced 3 = Normal 4 = Comfort							
5) 0 = Auto 1 = Off 2 = ----- 3 = Reserve heat							
6) 0 = No alarms 1 = Active alarm(s) 2 = Active acknowledged alarm(s)							
7) Certain temp sensor's value can be written to the							
8) 0 = Outside temp 1 = ----- 2 = Summer 3 = Winder							
9) 32bit data format: Unsigned integer, little endian, byte swap							
10) 1=Off 2=On 3=Frost protection active							
11) 1= Off 2=Standby 3=Passive cooling 4=Active cooling 5=Frost protection active							