Supervision variable list

Software version = JREF_14_03

Carel address	Modbus address	Variable description	Type	Read / Write	U.M.	Min value	Max value	Parameter
		Digital variables						
1	1	Digital input number 1	Digital / Coil	R	-	0	1	-
2	2	Digital input number 2	Digital / Coil	R	-	0	1	-
3	3	Digital input number 3	Digital / Coil	R	-	0	1	-
4	4	Digital input number 4	Digital / Coil	R	-	0	1	-
5	5	Digital input number 5	Digital / Coil	R	-	0	1	-
6	6	Digital input number 6	Digital / Coil	R	-	0	1	-
7	7	Digital input number 7	Digital / Coil	R	-	0	1	-
8	8	Digital input number 8	Digital / Coil	R	-	0	1	-
9	9	Digital input number 9	Digital / Coil	R	-	0	1	-
10	10	Digital input number 10	Digital / Coil	R	-	0	1	-
11	11	Digital input number 11	Digital / Coil	R	-	0	1	-
12	12	Digital input number 12	Digital / Coil	R	-	0	1	-
13	13	Digital input number 13	Digital / Coil	R	-	0	1	-
14	14	Digital input number 14	Digital / Coil	R	-	0	1	-
15	15	Digital output number 1	Digital / Coil	R	-	0	1	-
16	16	Digital output number 2	Digital / Coil	R	-	0	1	-
17	17	Digital output number 3	Digital / Coil	R	-	0	1	-
18	18	Digital output number 4	Digital / Coil	R	-	0	1	-
19	19	Digital output number 5	Digital / Coil	R	-	0	1	-
20	20	Digital output number 6	Digital / Coil	R	-	0	1	-
21	21	Digital output number 7	Digital / Coil	R	-	0	1	-
22	22	Digital output number 8	Digital / Coil	R	-	0	1	-
23	23	Digital output number 9	Digital / Coil	R	-	0	1	-
24	24	Digital output number 10	Digital / Coil	R	-	0	1	-
25	25	Digital output number 11	Digital / Coil	R	-	0	1	-
26	26	Digital output number 12	Digital / Coil	R	-	0	1	-
27	27	Digital output number 13	Digital / Coil	R	-	0	1	-
28	28	Generic alarm compressor circuit 1 (A01)	Digital / Coil	R	-	0	1	-
29	29	Generic alarm compressor circuit 2 (A02)	Digital / Coil	R	-	0	1	-
30	30	Low pressure alarm compressor circuit 1 (A03)	Digital / Coil	R	-	0	1	-
31	31	Low pressure alarm compressor circuit 2 (A04)	Digital / Coil	R	-	0	1	-
32	32	Air flow alarm (A05)	Digital / Coil	R	-	0	1	-
33	33	Fan thermal cutout alarm (A06)	Digital / Coil	R	-	0	1	-
34	34	Thermal cutout alarm heater 1 (A07)	Digital / Coil	R	-	0	1	-
35	35	Thermal cutout alarm heater 2 (A08)	Digital / Coil	R	-	0	1	-
36	36	Fire / smoke alarm (A09)	Digital / Coil	R	-	0	1	-
37	37	Dirty filter alarm (A10)	Digital / Coil	R	-	0	1	-
38	38	High ambient temperature alarm (A11)	Digital / Coil	R	-	0	1	-
39	39	Low ambient temperature alarm (A12)	Digital / Coil	R	-	0	1	-
40	40	High ambient humidity alarm (A13)	Digital / Coil	R	-	0	1	-
41	41	Low ambient humidity alarm (A14)	Digital / Coil	R	-	0	1	-
42	42	Op. hour threshold alarm, compressor 1 (A15)	Digital / Coil	R	-	0	1	-
43	43	Op. hour threshold alarm, compressor 2 (A16)	Digital / Coil	R	-	0	1	-
44	44	Op. hour threshold alarm, fan (A17)	Digital / Coil	R	-	0	1	-
45	45	Room temperature probe faulty alarm (A18)	Digital / Coil	R	-	0	1	-
46	46	Recovery temperature probe faulty alarm (A19)	Digital / Coil	R	-	0	1	-
47	47	Outside temperature probe faulty alarm (A20)	Digital / Coil	R	-	0	1	-
48	48	Outlet temperature probe faulty alarm (A21)	Digital / Coil	R	-	0	1	-
49	49	Room humidity probe faulty alarm (A22)	Digital / Coil	R	-	0	1	-
50	50	Pressure probe 1 faulty alarm (A23)	Digital / Coil	R	-	0	1	-
51	51	Pressure probe 2 faulty alarm (A24)	Digital / Coil	R	-	0	1	-
52	52	Cond. temp. probe 1 faulty alarm (A25)	Digital / Coil	R	-	0	1	-
53	53	Cond. temp. probe 2 faulty alarm (A26)	Digital / Coil	R	-	0	1	-
54	54	High current in the humidifier alarm (A27)	Digital / Coil	R	-	0	1	-
55	55	No water in humidifier alarm (A28)	Digital / Coil	R	-	0	1	-
56	56	No current in humidifier alarm (A29)	Digital / Coil	R	-	0	1	-
57	57	Clock card fault alarm (A30)	Digital / Coil	R	-	0	1	-
58	58	High pressure alarm circuit 1 (A31)	Digital / Coil	R	-	0	1	-
59	59	High pressure alarm circuit 2 (A32)	Digital / Coil	R	-	0	1	-
60	60	Flood alarm (A33)	Digital / Coil	R	-	0	1	-
61	61	Auxiliary alarm (A34)	Digital / Coil	R	-	0	1	-
62	62	Thermal cutout and high pressure alarm, comp. 1 (A35)	Digital / Coil	R	-	0	1	-
63	63	Humid. operating hour threshold alarm (A36)	Digital / Coil	R	-	0	1	-
64	64	Thermal cutout and high pressure alarm, comp. 2 (A37)	Digital / Coil	R	-	0	1	-
65	65	Condens. 1 fan thermal cutout alarm (A38)	Digital / Coil	R	-	0	1	-
66	66	Condens. 2 fan thermal cutout alarm (A39)	Digital / Coil	R	-	0	1	-
67	67	Water flow alarm (A40)	Digital / Coil	R	-	0	1	-
68	68	General alarm	Digital / Coil	R	-	0	1	-
69	69	Enable compressors/cooling coil together with recovery coil	Digital / Coil	R/W	-	0	1	G0-1
70	70	Enable outside temperature probe	Digital / Coil	R/W	-	0	1	Cl-1
71	71	Enable pressure probe 1	Digital / Coil	R/W	-	0	1	Ci-1
72	72	Enable pressure probe 2	Digital / Coil	R/W	-	0	1	Cj-1
73	73	Enable humidity probe	Digital / Coil	R/W	-	0	1	Ch-1
74	74	Enable outlet probe	Digital / Coil	R/W	-	0	1	Ck-2
75	75	Enable condenser 1 temp. probe	Digital / Coil	R/W	-	0	1	Cm-1
76	76	Enable condenser 2 temp. probe	Digital / Coil	R/W	-	0	1	Cm-3
77	77	Enable water inlet temperature probe	Digital / Coil	R/W	-	0	1	Cl-3
78	78	Analog output 1 configuration (0= Freecooling output; 1=Main fan)	Digital / Coil	R/W	-	0	1	Ca-1
79	79	Digital unit type (0=DX or DUAL COOLING; 1=CW) [see integer variable address 11]	Digital / Coil	R	-	0	1	-
80	80	Modulating output 4 configuration (0=freecooling valve; 1=humidifier)	Digital / Coil	R/W	-	0	1	Cb-1
81	81	Enable presence of compressor inverter driven	Digital / Coil	R/W	-	0	1	Cx-1
82	82	Enable presence of freecooling	Digital / Coil	R/W	-	0	1	Ct-1
83	83	Enable modulating outlet fan	Digital / Coil	R/W	-	0	1	Cc-2
84	84	Heating mode (0=heaters; 1=hot coil)	Digital / Coil	R/W	-	0	1	-
85	85	Type of valve on cooling coil (0=0-10V; 1=3pos)	Digital / Coil	R/W	-	0	1	C3-2
86	86	Type of valve on heating coil (0=0-10V; 1=3pos)	Digital / Coil	Read / W	-	0	1	C3-5
87	87	Enable modulating 0-10V humidifier output	Digital / Coil	R/W	-	0	1	Ca-2
88	88	Type of coil on main unit CW (0=single; 1=double)	Digital / Coil	R/W	-	0	1	C3-1
89	89	Type of condenser (0=single coil; 1=separate coils)	Digital / Coil	R/W	-	0	1	Cd-2
90	90	Select type of fans (0=inverter; 1=steps)	Digital / Coil	R/W	-	0	1	Cd-3
91	91	Enable condenser function	Digital / Coil	R/W	-	0	1	Cd-1
92	92	Enable high press. Prevent function	Digital / Coil	R/W	-	0	1	Gh-1
93	93	Enable outlet limit function	Digital / Coil	R/W	-	0	1	Pa-1
94	94	Enable compensation function	Digital / Coil	R/W	-	0	1	P7-1

95	95	Enable cooling coil for dehumidif.	Digital / Coil	R/W	-	0	1	Cf-3
96	96	Enable freecooling damper-valve	Digital / Coil	R/W	-	0	1	Cc-1
97	97	Dehumidif contact logic (0=NO; 1=NC)	Digital / Coil	R/W	-	0	1	Cf-1
98	98	Enable FIFO compressor rotation	Digital / Coil	R/W	-	0	1	G1-1
99	99	Enable compressor capacity-control steps	Digital / Coil	R/W	-	0	1	C2-2
100	100	Cap. control contact logic (0=NO; 1=NC)	Digital / Coil	R/W	-	0	1	G1-3
101	101	Type of temperature control (0=P; 1=P+I)	Digital / Coil	R/W	-	0	1	G1-2
102	102	Enable built-in humidifier	Digital / Coil	R/W	-	0	1	Cf-4
105	105	Enable Carel Master Control	Digital / Coil	R/W	-	0	1	Gj-1
106	106	Enable Force units in pLAN by temperature	Digital / Coil	R/W	-	0	1	Gm-1
107	107	Enable On-Off time bands	Digital / Coil	R/W	-	0	1	K2-1
108	108	Enable temperature time bands	Digital / Coil	R/W	-	0	1	K2-1
109	109	Enable humidity time bands	Digital / Coil	R/W	-	0	1	K2-1
110	110	Enable unit off from button	Digital / Coil	R/W	-	0	1	P5-2
111	111	Enable remote On-Off dig. input	Digital / Coil	R/W	-	0	1	P5-3
112	112	Unit On-Off from supervisor	Digital / Coil	R/W	-	0	1	-
113	113	Digital output 13 configuration (0=Freecooling drycooler setpoint; 1=not seriuous alarms)	Digital / Coil	R/W	-	0	1	C7-1
114	114	Select temperature unit of measure (0=°C; 1=°F)	Digital / Coil	R/W	-	0	1	C0-3
115	115	Enable clock card (pCO1)	Digital / Coil	R/W	-	0	1	C0-4
116	116	Enable humidity setpoint limits	Digital / Coil	R/W	-	0	1	P1-1
117	117	Confirm hour setting	Digital / Coil	R/W	-	0	1	-
118	118	Confirm minute setting	Digital / Coil	R/W	-	0	1	-
119	119	Confirm day setting	Digital / Coil	R/W	-	0	1	-
120	120	Confirm month setting	Digital / Coil	R/W	-	0	1	-
121	121	Confirm year setting	Digital / Coil	R/W	-	0	1	-
122	122	Enable humidity setpoint limits	Digital / Coil	R/W	-	0	1	P2-1
123	123	Reset alarms from supervisor	Digital / Coil	R/W	-	0	1	-
124	124	pLAN disconnected (A41)	Digital / Coil	R	-	0	1	-
125	125	Driver 1 alarm, probes fault or offline (A42)	Digital / Coil	R	-	0	1	-
126	126	Driver 1 EEPROM error (A43)	Digital / Coil	R	-	0	1	-
127	127	Driver 1 step motor error (A44)	Digital / Coil	R	-	0	1	-
128	128	Driver 1 battery error (A45)	Digital / Coil	R	-	0	1	-
129	129	Driver 1 high evaporation pressure (MOP) (A46)	Digital / Coil	R	-	0	1	-
130	130	Driver 1 low evaporation pressure (LOP) (A47)	Digital / Coil	R	-	0	1	-
131	131	Driver 1 low superheat (A48)	Digital / Coil	R	-	0	1	-
132	132	Driver 1 valve not closed during power OFF (A49)	Digital / Coil	R	-	0	1	-
133	133	Driver 1 high suction temperature (A50)	Digital / Coil	R	-	0	1	-
134	134	Driver 2 alarm, probes fault or offline (A51)	Digital / Coil	R	-	0	1	-
135	135	Driver 2 EEPROM error (A52)	Digital / Coil	R	-	0	1	-
136	136	Driver 2 step motor error (A53)	Digital / Coil	R	-	0	1	-
137	137	Driver 2 battery error (A54)	Digital / Coil	R	-	0	1	-
138	138	Driver 2 high evaporation pressure (MOP) (A55)	Digital / Coil	R	-	0	1	-
139	139	Driver 2 low evaporation pressure (LOP) (A56)	Digital / Coil	R	-	0	1	-
140	140	Driver 2 low superheat (A57)	Digital / Coil	R	-	0	1	-
141	141	Driver 2 valve not closed during power OFF (A58)	Digital / Coil	R	-	0	1	-
142	142	Driver 2 high suction temperature (A59)	Digital / Coil	R	-	0	1	-
143	143	High conductivity in the humidifier alarm (A60)	Digital / Coil	R	-	0	1	-
144	144	High conductivity in the humidifier pre-alarm (A61)	Digital / Coil	R	-	0	1	-
145	145	Low production of steam in the humidifier (A62)	Digital / Coil	R	-	0	1	-
146	146	Water drain alarm in the humidifier (A63)	Digital / Coil	R	-	0	1	-
147	147	Cylinder full alarm in the humidifier (A64)	Digital / Coil	R	-	0	1	-
148	148	Cylinder pre-exhaustion warning in the humidifer (A65)	Digital / Coil	R	-	0	1	-
149	149	Presence of foam warning in the humidifier (A66)	Digital / Coil	R	-	0	1	-
150	150	Cylinder exhaustion warning in the humidifer (A67)	Digital / Coil	R	-	0	1	-
151	151	Working hours of the humidifier pre-alarm (A68)	Digital / Coil	R	-	0	1	-
152	152	Working hours of the humidifier alarm (A69)	Digital / Coil	R	-	0	1	-
153	153	Expansion card connection alarm (A70)	Digital / Coil	R	-	0	1	-
154	154	Coil probe fault or offline (A71)	Digital / Coil	R	-	0	1	-
155	155	Freecooling coil antifreeze alarm (A72)	Digital / Coil	R	-	0	1	-
156	156	Dry-cooler alarm (A73)	Digital / Coil	R	-	0	1	-
157	157	External fan overload alarm (A74)	Digital / Coil	R	-	0	1	-
158	158	Phase sequence alarm (A75)	Digital / Coil	R	-	0	1	-
159	159	Air differential pressure probe fault or offline (A76)	Digital / Coil	R	-	0	1	-
160	160	High inlet water temperature alarm (A77)	Digital / Coil	R	-	0	1	-
161	161	Dual cooling: normal mode alarm (A78)	Digital / Coil	R	-	0	1	-
162	162	Dual cooling: emergency activation warning (A79)	Digital / Coil	R	-	0	1	-
163	163	Compressor inverter alarm (A80)	Digital / Coil	R	-	0	1	-
164	164	Op. hour threshold alarm, compressor 3 (A81)	Digital / Coil	R	-	0	1	-
165	165	Op. hour threshold alarm, compressor 4 (A82)	Digital / Coil	R	-	0	1	-
170	170	Not serious alarm	Digital / Coil	R	-	0	1	-
171	171	Serious alarm	Digital / Coil	R	-	0	1	-
172	172	Enable air flow control function	Digital / Coil	R/W	-	0	1	-
173	173	Enable air pressure probe	Digital / Coil	R/W	-	0	1	-
174	174	Type of pressure probe (0 = air flow; 1 = delta P)	Digital / Coil	R/W	-	0	1	-
		Analog variables						
1	1	Room humidity probe reading	Analog / Register	R	0,1%Rh	0	1000	-
2	2	Pressure probe 1 reading	Analog / Register	R	0,1bar	-999	999	-
3	3	Pressure probe 2 reading	Analog / Register	R	0,1bar	-999	999	-
4	4	Room temperature probe reading	Analog / Register	R	0,1°C	-999	999	-
5	5	Air outlet temperature probe reading	Analog / Register	R	0,1°C	-999	999	-
6	6	Outside temperature probe reading	Analog / Register	R	0,1°C	-999	999	-
7	7	Cond. 1 temperature probe reading	Analog / Register	R	0,1°C	-999	999	-
8	8	Cond. 2 temperature probe reading	Analog / Register	R	0,1°C	-999	999	-
9	9	Water recovery temperature probe reading	Analog / Register	R	0,1°C	-999	999	-
10	10	Temperature set point	Analog / Register	R/W	0,1°C	var.11	var.12	S1-1
11	11	Minimum temperature set point limit	Analog / Register	R/W	0,1°C	-999	999	P1-2
12	12	Maximum temperature set point limit	Analog / Register	R/W	0,1°C	-999	999	P1-2
13	13	Humidity set point	Analog / Register	R/W	0,1%Rh	var.14	var.15	S1-2
14	14	Minimum humidity set point limit	Analog / Register	R/W	0,1%Rh	0	1000	P2-2
15	15	Maximum humidity set point limit	Analog / Register	R/W	0,1%Rh	0	1000	P2-2
16	16	Temperature time band set point Z1	Analog / Register	R/W	0,1°C	var.11	var.12	K6-3
17	17	Temperature time band set point Z2	Analog / Register	R/W	0,1°C	var.11	var.12	K6-3
18	18	Temperature time band set point Z3	Analog / Register	R/W	0,1°C	var.11	var.12	K7-3
19	19	Temperature time band set point Z4	Analog / Register	R/W	0,1°C	var.11	var.12	K7-3
20	20	Humidity time band set point Z1	Analog / Register	R/W	0,1%Rh	var.14	var.15	K8-3
21	21	Humidity time band set point Z2	Analog / Register	R/W	0,1%Rh	var.14	var.15	K8-3
22	22	Humidity time band set point Z3	Analog / Register	R/W	0,1%Rh	var.14	var.15	K8-3
23	23	Humidity time band set point Z4	Analog / Register	R/W	0,1%Rh	var.14	var.15	K8-3
24	24	Temperature dead zone	Analog / Register	R/W	0,1°C	0	999	P3-2
25	25	Proportional band in Cooling	Analog / Register	R/W	0,1°C	0	1000	P3-1
26	26	Proportional band in Heating	Analog / Register	R/W	0,1°C	0	1000	P3-1

27	27	Proportional band in Humidification	Analog / Register	R/W	0,1%Rh	0	999	P4-1
28	28	Proportional band in Dehumidification	Analog / Register	R/W	0,1%Rh	0	999	P4-1
29	29	Maximum compensation set temp. offset	Analog / Register	R/W	0,1°C	-9999	9999	P7-4
30	30	Outside temperature probe calibration	Analog / Register	R/W	0,1°C	-99	99	A2-2
31	31	Condens. 1 pressure probe calibration	Analog / Register	R/W	0,1bar	-99	99	A9-2
32	32	Condens. 2 pressure probe calibration	Analog / Register	R/W	0,1bar	-99	99	A9-3
33	33	Humidity probe calibration	Analog / Register	R/W	0,1%Rh	-99	99	A9-1
34	34	Room temperature probe calibration	Analog / Register	R/W	0,1°C	-99	99	Aa-1
35	35	Supply temperature probe calibration	Analog / Register	R/W	0,1°C	-99	99	Aa-3
36	36	Condens.1 temperature probe calibration	Analog / Register	R/W	0,1°C	-99	99	Ab-2
37	37	Condens.2 temperature probe calibration	Analog / Register	R/W	0,1°C	-99	99	Ab-3
38	38	Water inlet temperature probe calibration	Analog / Register	R/W	0,1°C	-99	99	Ab-1
39	39	Stop dehumidification temp. differential	Analog / Register	R/W	0,1°C	0	999	G9-1
40	40	Supply air differential	Analog / Register	R/W	0,1°C	-9999	9999	Pa-3
41	41	Outside air differential for compensation	Analog / Register	R/W	0,1°C	-9999	9999	P7-3
42	42	High pressure alarm differential	Analog / Register	R/W	0,1bar	-999	999	Gd-2
43	43	Condensing (pressure) differential	Analog / Register	R/W	0,1bar	-999	999	Gd-2
44	44	Condensing (temp.) differential	Analog / Register	R/W	0,1°C	-999	999	Gf-2
45	45	Max condenser fan speed	Analog / Register	R/W	0,1V	0	100	Gg-1
46	46	Min condenser fan speed	Analog / Register	R/W	0,1V	0	100	Gg-2
47	47	Condensing (pressure) set point	Analog / Register	R/W	0,1bar	-999	999	Gd-1
48	48	Condensing (temperature) set point	Analog / Register	R/W	0,1°C	-999	999	Gf-1
49	49	High ambient temperature differential to force units in network	Analog / Register	R/W	0,1°C	0	999	Go-1
50	50	Low ambient temperature differential to force units in network	Analog / Register	R/W	0,1°C	0	999	Gn-1
51	51	High ambient temperature offset to force units in network	Analog / Register	R/W	0,1°C	0	999	Go-2
52	52	Low ambient temperature offset to force units in network	Analog / Register	R/W	0,1°C	0	999	Gn-2
53	53	High ambient temperature alarm offset	Analog / Register	R/W	0,1°C	-9999	9999	P8-1
54	54	Low ambient temperature alarm offset	Analog / Register	R/W	0,1°C	-9999	9999	P8-1
55	55	High ambient humidity alarm offset	Analog / Register	R/W	0,1%Rh	0	1000	P9-1
56	56	Low ambient humidity alarm offset	Analog / Register	R/W	0,1%Rh	0	1000	P9-1
57	57	Maximum outlet fan speed	Analog / Register	R/W	0,1V	0	100	G7-1
58	58	Minimum outlet fan speed	Analog / Register	R/W	0,1V	0	100	G7-1
59	59	Maximum humidifier production	Analog / Register	R/W	0,1%Rh	0	1000	Cg-2
60	60	End point to open modulating humidifier output	Analog / Register	R/W	0,1V	0	100	G8-1
61	61	Starting point to open modulating humidifier output	Analog / Register	R/W	0,1V	0	100	G8-1
62	62	Maximum value humidity probe	Analog / Register	R/W	0,1%Rh	0	1000	Ch-3
63	63	Minimum value humidity probe	Analog / Register	R/W	0,1%Rh	0	1000	Ch-3
64	64	Maximum value pressure probe 1	Analog / Register	R/W	0,1bar	-200	500	Ci-3
65	65	Minimum value pressure probe 1	Analog / Register	R/W	0,1bar	-200	500	Ci-3
66	66	Maximum value pressure probe 2	Analog / Register	R/W	0,1bar	-200	500	Cj-3
67	67	Minimum value pressure probe 2	Analog / Register	R/W	0,1bar	-200	500	Cj-3
68	68	Restart dehumidification temp. offset	Analog / Register	R/W	0,1°C	0	999	G9-2
69	69	Prevent (pressure) differential	Analog / Register	R/W	0,1bar	-999	999	Gh-3
70	70	Prevent (temperature) differential	Analog / Register	R/W	0,1°C	-999	999	Gi-3
71	71	Prevent (pressure) set point	Analog / Register	R/W	0,1bar	-999	999	Gh-2
72	72	Prevent (temperature) set point	Analog / Register	R/W	0,1°C	-999	999	Gi-2
73	73	Freecooling set point temperature	Analog / Register	R/W	0,1°C	0	999	P6-1
74	74	High pressure alarm set point	Analog / Register	R/W	0,1bar	-999	999	Gd-1
75	75	Supply air set point	Analog / Register	R/W	0,1°C	-9999	9999	Pa-2
76	76	Outside air set point for compensation	Analog / Register	R/W	0,1°C	-9999	9999	P7-2
77	77	Outlet fan speed in dehumid.	Analog / Register	R/W	0,1V	0	100	G3-2
78	78	Current superheating value driver 1	Analog / Register	R	0,1°C	-999	999	-
79	79	Evaporation temperature driver 1	Analog / Register	R	0,1°C	-999	999	-
80	80	Suction temperature driver 1	Analog / Register	R	0,1°C	-999	999	-
81	81	Evaporation pressure driver 1	Analog / Register	R	0,1bar	-999	999	-
82	82	Condensing temperature driver 1	Analog / Register	R	0,1°C	-999	999	-
83	83	Current superheating value driver 2	Analog / Register	R	0,1°C	-999	999	-
84	84	Evaporation temperature driver 2	Analog / Register	R	0,1°C	-999	999	-
85	85	Suction temperature driver 2	Analog / Register	R	0,1°C	-999	999	-
86	86	Evaporation pressure driver 2	Analog / Register	R	0,1bar	-999	999	-
87	87	Condensing temperature driver 2	Analog / Register	R	0,1°C	-999	999	-
88	88	Dual cooling unit: emergency setpoint	Analog / Register	R/W	0,1°C	var.11	var.12	S2-1
89	89	Air Delta P setpoint	Analog / Register	R/W	0,1Pa	0	50.0	S4-1
		Integer variables						
1	129	Analogue output 1	Integer / Register	R	0,01V	0	1000	-
2	130	Analogue output 2	Integer / Register	R	0,01V	0	1000	-
3	131	Analogue output 3	Integer / Register	R	0,1%	0	1000	-
4	132	Analogue output 4	Integer / Register	R	0,1%	0	1000	-
5	133	Current hour	Integer / Register	R	Hours	0	23	-
6	134	Current minutes	Integer / Register	R	Minutes	0	59	-
7	135	Day	Integer / Register	R	Day	1	31	-
8	136	Month	Integer / Register	R	Month	1	12	-
9	137	Year	Integer / Register	R	Year	0	99	-
10	138	Weekday	Integer / Register	R	Weekday	1	7	-
11	139	Integer unit type (0=DX, 1=CW, 2=DUAL COOLING)	Integer / Register	R	-	0	2	-
12	140	Unit status (0=Unit On, 1=Off by alarms, 2=Off by supervisor, 3=Off by timezones, 4=Off by digital input, 5=Off by keyboard, 6=Manual procedure, 7=Stand-by mode)	Integer / Register	R	-	0	7	-
13	141	Analogue output 1 of pCOExpansion	Integer / Register	R	0,01V	0	1000	-
14	142	Hour setting	Integer / Register	R/W	Hours	0	23	K0-1
15	143	Minute setting	Integer / Register	R/W	Minutes	0	59	K0-2
16	144	Day setting	Integer / Register	R/W	Day	1	31	K0-3
17	145	Month setting	Integer / Register	R/W	Month	1	12	K0-4
18	146	Year setting	Integer / Register	R/W	Year	0	99	K0-5
19	147	Air flow setpoint	Integer / Register	R/W	10m3/h	0	99	S3-1
20	148	Number of compressors	Integer / Register	R/W	-	1	4	C2-1
21	149	Number of compressors for dehumidify	Integer / Register	R/W	-	0	2	Cf-2
22	150	Select number of On-Off fans	Integer / Register	R/W	-	1	2	Cd-4
23	151	Humber of heaters (3=Binary mode)	Integer / Register	R/W	-	0	3	C2-4 / C3-4
24	152	Probe 2 input configuration (0=cond. 1 press.; 1=cond.1 temp.; 2=supply temp.)	Integer / Register	R/W	-	0	2	C8-1
25	153	Probe 3 input configuration (0= cond.2 press.; 1=cond.2 temp.; 2=water inlet temp.)	Integer / Register	R/W	-	0	2	C9-1
27	155	Type of signal from the humidity probe (2=0-1V; 3=0-10V; 4=current)	Integer / Register	R/W	-	2	4	Ch-2
28	156	Type of signal pressure probe 1 (2=0-1V; 3=0-10V; 4=current)	Integer / Register	R/W	-	2	4	Ci-2
29	157	Type of signal pressure probe 2 (2=0-1V; 3=0-10V; 4=current)	Integer / Register	R/W	-	2	4	Cj-2
30	158	Type of signal condens. 1 T probe (0=NTC; 1=PT1000; 2=0-1V; 3=0-10V; 4=current)	Integer / Register	R/W	-	0	4	Cm-2
31	159	Type of signal condens. 2 T probe (0=NTC; 1=PT1000; 2=0-1V; 3=0-10V; 4=current)	Integer / Register	R/W	-	0	4	Cm-4
32	160	Type of signal from the temperature probe external (0=NTC; 1=PT1000)	Integer / Register	R/W	-	0	1	Cl-2
33	161	Type of signal from water inlet temperature probe (0=NTC; 1=PT1000)	Integer / Register	R/W	-	0	1	Cl-3
34	162	Type of signal from room temperature probe (0=NTC; 1=PT1000)	Integer / Register	R/W	-	0	1	Ck-1
35	163	Type of signal from supply temperature probe (0=NTC; 1=PT1000)	Integer / Register	R/W	-	0	1	Ck-2
36	164	Select refrigerant (0=no; 1=R22; 2=134a; 3=404a; 4=407C; 5=410A)	Integer / Register	R/W	-	0	5	C1-2
37	165	Air flow switch alarm delay	Integer / Register	R/W	seconds	0	9999	T4-1

38	166	Supply fan off delay	Integer / Register	R/W	seconds	0	999	T0-1
39	167	Supply fan start delay	Integer / Register	R/W	seconds	0	999	T0-1
40	168	Delay in activating not serious alarm	Integer / Register	R/W	seconds	0	9999	T3-2
41	169	Delay in activating serious alarm	Integer / Register	R/W	seconds	0	9999	T3-1
42	170	Water flow switch alarm delay	Integer / Register	R/W	seconds	0	9999	T4-2
43	171	Delay between starts of different compressors	Integer / Register	R/W	seconds	0	999	T6-2
44	172	Heater start delay	Integer / Register	R/W	seconds	0	9999	T8-1
45	173	Low pressure alarm delay at startup	Integer / Register	R/W	seconds	0	999	T2-1
46	174	Integration time for P+I control	Integer / Register	R/W	seconds	0	999	T1-1
47	175	Minimum compressor off time	Integer / Register	R/W	seconds	0	9999	T5-1
48	176	Minimum compressor on time	Integer / Register	R/W	seconds	0	9999	T5-2
49	177	Delay between compressor starts	Integer / Register	R/W	seconds	0	999	T6-1
50	178	Cap. control activation delay	Integer / Register	R/W	seconds	0	9999	T7-1
51	179	3 position valve travel time	Integer / Register	R/W	seconds	0	999	T1-2
52	180	High-low temperature-humidity alarm delay	Integer / Register	R/W	seconds	0	9999	T2-3
53	181	High conductivity pre-alarm threshold	Integer / Register	R/W	uS/cm2	0	2000	Gb-1
54	182	High conductivity alarm delay	Integer / Register	R/W	uS/cm2	0	2000	Gb-2
55	183	Type of humidifier (0=3Kg/h; 1=8Kg/h; 3=15Kg/h)	Integer / Register	R/W	-	0	2	Cg-1
56	186	History alarm 1 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
57	186	History alarm 1 part 2 (day, month)	Integer / Register	R	-	0	9999	-
58	186	History alarm 1 part 3 (year, code)	Integer / Register	R	-	0	9999	-
59	187	History alarm 2 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
60	188	History alarm 2 part 2 (day, month)	Integer / Register	R	-	0	9999	-
61	189	History alarm 2 part 3 (year, code)	Integer / Register	R	-	0	9999	-
62	190	History alarm 3 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
63	191	History alarm 3 part 2 (day, month)	Integer / Register	R	-	0	9999	-
64	192	History alarm 3 part 3 (year, code)	Integer / Register	R	-	0	9999	-
65	193	History alarm 4 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
66	194	History alarm 4 part 2 (day, month)	Integer / Register	R	-	0	9999	-
67	195	History alarm 4 part 3 (year, code)	Integer / Register	R	-	0	9999	-
68	196	History alarm 5 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
69	197	History alarm 5 part 2 (day, month)	Integer / Register	R	-	0	9999	-
70	198	History alarm 5 part 3 (year, code)	Integer / Register	R	-	0	9999	-
71	199	History alarm 6 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
72	200	History alarm 6 part 2 (day, month)	Integer / Register	R	-	0	9999	-
73	201	History alarm 6 part 3 (year, code)	Integer / Register	R	-	0	9999	-
74	202	History alarm 7 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
75	203	History alarm 7 part 2 (day, month)	Integer / Register	R	-	0	9999	-
76	204	History alarm 7 part 3 (year, code)	Integer / Register	R	-	0	9999	-
77	205	History alarm 8 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
78	206	History alarm 8 part 2 (day, month)	Integer / Register	R	-	0	9999	-
79	207	History alarm 8 part 3 (year, code)	Integer / Register	R	-	0	9999	-
80	208	History alarm 9 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
81	209	History alarm 9 part 2 (day, month)	Integer / Register	R	-	0	9999	-
82	210	History alarm 9 part 3 (year, code)	Integer / Register	R	-	0	9999	-
83	211	History alarm 10 part 1 (minute, hour)	Integer / Register	R	-	0	9999	-
84	212	History alarm 10 part 2 (day, month)	Integer / Register	R	-	0	9999	-
85	213	History alarm 10 part 3 (year, code)	Integer / Register	R	-	0	9999	-
93	221	Cond. fan Speed-up time	Integer / Register	R/W	-	0	999	Ge-3
94	222	Compressor circuit 1 operating hours threshold	Integer / Register	R/W	1000 hours	0	99	A8-2
95	223	Compressor circuit 2 operating hours threshold	Integer / Register	R/W	1000 hours	0	99	A8-3
97	225	Fan operating hour threshold	Integer / Register	R/W	1000 hours	0	99	A8-1
98	226	Rotation mode for units in pLAN network (0=Automatic; 1=Timezones; 2=Running hours)	Integer / Register	R/W	-	0	2	Gk-1
99	227	Forcing delay for high ambient temp.	Integer / Register	R/W	minutes	0	999	Gm-2
100	228	Forcing delay for low ambient temp.	Integer / Register	R/W	minutes	0	999	Gm-2
101	229	Interval in days for automatic rotation	Integer / Register	R/W	days	1	7	Gl-3
102	230	Hour automatic rotation	Integer / Register	R/W	hours	1	23	Gl-1
103	231	Minutes automatic rotation	Integer / Register	R/W	minutes	0	59	Gl-2
105	233	Number of units in Standby mode	Integer / Register	R/W	-	0	8	Gk-2
106	234	Automatic rotation interval for units in pLAN	Integer / Register	R/W	hours	1	240	Gk-4
107	235	pLAN connection class board 1 (0=not present; 1=present/no rot.; 2=present/rotation)	Integer / Register	R/W	-	0	2	Cn-1
108	236	pLAN connection class board 2 (0=not present; 1=present/no rot.; 2=present/rotation)	Integer / Register	R/W	-	0	2	Cn-2
109	237	pLAN connection class board 3 (0=not present; 1=present/no rot.; 2=present/rotation)	Integer / Register	R/W	-	0	2	Cn-2
110	238	pLAN connection class board 4 (0=not present; 1=present/no rot.; 2=present/rotation)	Integer / Register	R/W	-	0	2	Co-1
111	239	pLAN connection class board 5 (0=not present; 1=present/no rot.; 2=present/rotation)	Integer / Register	R/W	-	0	2	Co-1
112	240	pLAN connection class board 6 (0=not present; 1=present/no rot.; 2=present/rotation)	Integer / Register	R/W	-	0	2	Co-1
113	241	pLAN connection class board 7 (0=not present; 1=present/no rot.; 2=present/rotation)	Integer / Register	R/W	-	0	2	Cp-1
114	242	pLAN connection class board 8 (0=not present; 1=present/no rot.; 2=present/rotation)	Integer / Register	R/W	-	0	2	Cp-1
115	243	Valve position driver 1	Integer / Register	R	steps	0	9999	-
116	244	Valve position driver 2	Integer / Register	R	steps	0	9999	-
117	245	Humidifier configuration: periodic drain hours	Integer / Register	R/W	hours	0	120	Ai1-2
118	246	Humidifier configuration: stop delay seconds	Integer / Register	R/W	seconds	0	120	Ai2-1
119	247	Humidifier configuration: Drain after humid. inactive hours	Integer / Register	R/W	hours	1	199	Ai2-2
120	248	Humidifier configuration: Threshold running hours alarm	Integer / Register	R/W	hours	1000	8000	Ai3-1
121	249	Humidifier configuration: Manual conductivity value (0-2000 uS/cm)	Integer / Register	R/W	uS/cm2	0	2000	Ai4-2
122	250	Configuration of analog output Y2 of pCO1 (0=Warm water coil; 1=Freecooling; 2=Hot gas valve; 3=Inverter; 4=Dual cooling valve)	Integer / Register	R/W	-	0	4	Cb2-1
123	251	Configuration of analog output Y1 of pCOE (0=Warm water coil; 1=Freecooling; 2=Hot gas valve; 3=Inverter; 4=Dual cooling valve)	Integer / Register	R/W	-	0	4	Cr2-1
124	255	Cooling demand 3point valve	Integer / Register	R	0,1%	0	1000	-
125	256	Heating demand 3point valve	Integer / Register	R	0,1%	0	1000	-
126	257	Differential pressure air probe	Integer / Register	R	0,1Pa	0	1000	-
127	258	Air flow volume	Integer / Register	R/W	10m3/h	0	1000	-