

Modbus instelling voor Close Control Airconditioning units (INNOV@)

Protocol: Modbus
 versie: RTU
 bit: 8 data bit
 2 stop bit
 no parity

baudrate: 9600 baud (aanbevolen)
 min. 1200 baud
 max. 19200 baud

Identificatie unit: Instelbaar in unit programma User, Pf-1
 max. 200

Instelmogelijkheid:

C0	1	Enable BMS	No		No-Yes	
Pf	1	Board identification number for supervisory network	1		0-200	
Pf	2	Board communication speed for supervisory network	19200		1200-19200	Bps
Pf	3	Serial communication protocol	Carel		Carel, Modbus, Lon, RS232, Gsm	

Modbus point type: Digitale variabelen: coil variables
 Analoge variabelen: register variables
 Integere variabelen: register variables Carel adres + 128

Regelstrategie: De unit kan zowel door het Gebouw Beheer Systeem als door de gebruiker ingesteld worden.
 Hierbij geldt dat de laatst ingegeven instelling bepalend is.

Meest gebruikte Datapunten:**Chilled Water unit:****Omschrijving:****Type****Modbus****omschrijving**

Unit aan/uit via modbus	R/W	D 112	0=uit / 1=aan
Bedrijfmelding Toevoerventilator	R	D 15	0=uit / 1=aan
Bedrijfmelding elektrische heater 1	R	D 18	0=uit / 1=aan
Bedrijfmelding elektrische heater 2	R	D 19	0=uit / 1=aan
Bedrijfmelding bevochtigen	R	D 25	0=uit / 1=aan
Bedrijfmelding ontvochtigen	R	D 20	0=uit / 1=aan
Remote aan/uit potentiaal vrij contact (uitlezing)	R	D 8	0=aan / 1=uit
Alarm reset via modbus (let op: 2 x schrijven)	R/W	D 123	1x1=display/2x1=reset
Bedrijfsuren overschrijding alarm Bevochtiger	R	D 63	0=uit / 1=aan
Bedrijfsuren overschrijding alarm Toevoerventilator	R	D 44	0=uit / 1=aan
Elektrische heater 1 thermisch alarm	R	D 34	0=uit / 1=aan
Elektrische heater 2 thermisch alarm	R	D 35	0=uit / 1=aan
Hoge ruimtetemperatuur alarm	R	D 38	0=uit / 1=aan
Hoge ruimteluchtvochtigheid alarm	R	D 40	0=uit / 1=aan
Lage ruimtetemperatuur alarm	R	D 39	0=uit / 1=aan
Lage ruimteluchtvochtigheid alarm	R	D 41	0=uit / 1=aan
Hoge/lage ruimtetemp./vochtigheid alarm vertraging	R/W	I 180	instelling,uitlezing :10
Luchtflow te laag alarm	R	D 32	0=uit / 1=aan
Niet urgent alarm	R	D 27	0=uit / 1=aan
Toevoer ventilator thermisch alarm	R	D 33	0=uit / 1=aan
Urgent alarm	R	D 22	0=uit / 1=aan
Vuilfilter alarm	R	D 37	0=uit / 1=aan
Waterflow alarm	R	D 67	0=uit / 1=aan
Water onder de vloer alarm	R	D 60	0=uit / 1=aan
Gewenste temperatuur instelling (ruimtetemp. of inblaastemp. bij supply-air regeling)	R/W	A 10	instelling,uitlezing :10
Gewenste relatieve luchtvochtigheid instelling	R/W	A 14	instelling,uitlezing :10
Gewenste luchthoeveelheid instelling (optie, instelling 0-40000 m3/h, instelling x 500)	R/W	I 147	instelling,uitlezingx500
Ruimtetemperatuur uitlezing	R	A 4	uitlezing :10
Ruimteluchtvochtigheid uitlezing	R	A 1	uitlezing :10
Inblaastemperatuur uitlezing	R	A 5	uitlezing :10
Buitentemperatuur uitlezing (optie)	R	A 6	uitlezing :10
Analoge aansturing Toevoerventilator 0-10V (uitlezing)	R	I 129	uitlezing :100
Analoge aansturing Gekoeldwaterklep 0-10V (uitlezing)	R	I 130	uitlezing :100
Analoge aansturing Warmwaterklep 0-10V (uitlezing)	R	I 132	uitlezing :100

Meest gebruikte Datapunten:**Direct Expansie unit:****Omschrijving:****Type****Modbus****omschrijving**

Unit aan/uit via modbus	R/W	D 112	0=uit / 1=aan
Bedrijfmelding Toevoerventilator	R	D 15	0=uit / 1=aan
Bedrijfmelding compressor 1	R	D 16	0=uit / 1=aan
Bedrijfmelding compressor 2	R	D 17	0=uit / 1=aan
Bedrijfmelding elektrische heater 1	R	D 18	0=uit / 1=aan
Bedrijfmelding elektrische heater 2	R	D 19	0=uit / 1=aan
Bedrijfmelding bevochtigen	R	D 25	0=uit / 1=aan
Bedrijfmelding ontvochtigen	R	D 20	0=uit / 1=aan
Remote aan/uit potentiaal vrij contact (uitlezing)	R	D 8	0=aan / 1=uit
Alarm reset via modbus (let op: 2 x schrijven)	R/W	D 123	1x1=display/2x1=reset
Bedrijfsuren overschrijding alarm Bevochtiger	R	D 63	0=uit / 1=aan
Bedrijfsuren overschrijding alarm Toevoerventilator	R	D 44	0=uit / 1=aan
Bedrijfsuren overschrijding alarm Compressor 1	R	D 42	0=uit / 1=aan
Bedrijfsuren overschrijding alarm Compressor 2	R	D 43	0=uit / 1=aan
Elektrische heater 1 thermisch alarm	R	D 34	0=uit / 1=aan
Elektrische heater 2 thermisch alarm	R	D 35	0=uit / 1=aan
Overstroom / hoge druk compressor 1 alarm	R	D 62	0=uit / 1=aan
Overstroom / hoge druk compressor 2 alarm	R	D 64	0=uit / 1=aan
Lage druk compressor 1 alarm	R	D 30	0=uit / 1=aan
Lage druk compressor 2 alarm	R	D 31	0=uit / 1=aan
Hoge ruimtetemperatuur alarm	R	D 38	0=uit / 1=aan
Hoge ruimteluchtvochtigheid alarm	R	D 40	0=uit / 1=aan
Lage ruimtetemperatuur alarm	R	D 39	0=uit / 1=aan
Lage ruimteluchtvochtigheid alarm	R	D 41	0=uit / 1=aan
Hoge/lage ruimtetemp./vochtigheid alarm vertraging	R/W	I 180	instelling,uitlezing :10
Luchtflow te laag alarm	R	D 32	0=uit / 1=aan
Niet urgent verzamelalarm	R	D 27	0=uit / 1=aan
Toevoer ventilator thermisch alarm	R	D 33	0=uit / 1=aan
Urgent verzamelalarm	R	D 22	0=uit / 1=aan
Vuilfilter alarm	R	D 37	0=uit / 1=aan
Waterflow alarm	R	D 67	0=uit / 1=aan
Water onder de vloer alarm	R	D 60	0=uit / 1=aan
Gewenste temperatuur instelling (ruimtetemp. of inblaastemp. bij supply-air regeling)	R/W	A 10	instelling,uitlezing :10
Gewenste relatieve luchtvochtigheid instelling	R/W	A 14	instelling,uitlezing :10
Gewenste luchthoeveelheid instelling (optie, instelling 0-40000 m3/h, instelling x 500)	R/W	I 147	instelling,uitlezingx500

Direct Expansie unit:**Omschrijving:****Type****Modbus****omschrijving**

Ruimtetemperatuur uitlezing	R	A 4	uitlezing :10
Ruimteluchtvochtigheid uitlezing	R	A 1	uitlezing :10
Inblaastemperatuur uitlezing	R	A 5	uitlezing :10
Buitentemperatuur uitlezing (optie)	R	A 6	uitlezing :10
Analoge aansturing Toevoerventilator 0-10V (uitlezing)	R	I 129	uitlezing :100
Analoge aansturing Gekoeldwaterklep 0-10V (uitlezing)	R	I 130	uitlezing :100
Analoge aansturing Warmwaterklep 0-10V (uitlezing)	R	I 132	uitlezing :100



Digitale variabelen:	Type	Carel adres	Modbus adres
Digital input number 1	R	1	1
Digital input number 2	R	2	2
Digital input number 3	R	3	3
Digital input number 4	R	4	4
Digital input number 5	R	5	5
Digital input number 6	R	6	6
Digital input number 7	R	7	7
Digital input number 8	R	8	8
Digital input number 9	R	9	9
Digital input number 10	R	10	10
Humidifier water level contact	R	11	11
Digital input number 12	R	12	12
Digital input number 13	R	13	13
Digital input number 14	R	14	14
Digital output number 1	R	15	15
Digital output number 2	R	16	16
Digital output number 3	R	17	17
Digital output number 4	R	18	18
Digital output number 5	R	19	19
Digital output number 6	R	20	20
Digital output number 7	R	21	21
Digital output number 8	R	22	22
Digital output number 9	R	23	23
Digital output number 10	R	24	24
Digital output number 11	R	25	25
Digital output number 12	R	26	26
Digital output number 13	R	27	27
Generic alarm compressor 1	R	28	28
Generic alarm compressor 2	R	29	29
Low pressure alarm compressor 1	R	30	30
Low pressure alarm compressor 2	R	31	31
Air flow alarm	R	32	32
Fan thermal cutout alarm	R	33	33
Thermal cutout alarm heater 1	R	34	34
Thermal cutout alarm heater 2	R	35	35
Fire / smoke alarm	R	36	36
Dirty filter alarm	R	37	37
High ambient temperature alarm	R	38	38
Low ambient temperature alarm	R	39	39
High ambient humidity alarm	R	40	40
Low ambient humidity alarm	R	41	41
Op. hour threshold alarm, compressor 1	R	42	42

Op. hour threshold alarm, compressor 2	R	43	43
Op. hour threshold alarm, fan	R	44	44
Room temperature probe faulty alarm	R	45	45
Recovery temperature probe faulty alarm	R	46	46
Outside temperature probe faulty alarm	R	47	47
Outlet temperature probe faulty alarm	R	48	48
Room humidity probe faulty alarm	R	49	49
Pressure probe 1 faulty alarm	R	50	50
Pressure probe 2 faulty alarm	R	51	51
Cond. temp. probe 1 faulty alarm	R	52	52
Cond. temp. probe 2 faulty alarm	R	53	53
High current in the humidifier alarm	R	54	54
No water in humidifier alarm	R	55	55
No current in humidifier alarm	R	56	56
Clock card fault alarm	R	57	57
High pressure alarm circuit 1	R	58	58
High pressure alarm circuit 2	R	59	59
Flood alarm	R	60	60
Auxiliary alarm	R	61	61
Thermal cutout and high pressure alarm, comp. 1	R	62	62
Humidifier operating hour threshold alarm	R	63	63
Thermal cutout and high pressure alarm, comp. 2	R	64	64
Condens. 1 fan thermal cutout alarm	R	65	65
Condens. 2 fan thermal cutout alarm	R	66	66
Water flow alarm	R	67	67
General alarm	R	68	68
Enable compr./cooling coil together with recovery coil	R/W	69	69
Enable outside temperature probe	R/W	70	70
Enable pressure probe 1	R/W	71	71
Enable pressure probe 2	R/W	72	72
Enable humidity probe	R/W	73	73
Enable outlet probe	R/W	74	74
Enable condenser 1 temp. Probe	R/W	75	75
Enable condenser 2 temp. Probe	R/W	76	76
Enable recovery probe	R/W	77	77
Modulating output 1 configuration (0=rec. valve; 1=modulating fan)	R/W	78	78
Digital unit type (0=DX or DUAL COOLING; 1=CW) [see integer variable address 11]	R/W	79	79
Modulating output 2 configuration (0=recovery valve; 1=humidifier)	R/W	80	80
Enable modulating outlet fan	R/W	83	83

Heating mode (0=heaters; 1=hot coil)	R/W	84	84
Type of valve on cooling coil (0=0-10V; 1=3pos)	R/W	85	85
Type of valve on heating coil (0=0-10V; 1=3pos)	R/W	86	86
Enable modulating 0-10V humidifier output	R/W	87	87
Type of coil on main unit CW (0=single; 1=double)	R/W	88	88
Type of condenser (0=single coil; 1=separate coils)	R/W	89	89
Select type of fans (0=inverter; 1=steps)	R/W	90	90
Enable condenser function	R/W	91	91
Enable high press. Prevent function	R/W	92	92
Enable outlet limit function	R/W	93	93
Enable compensation function	R/W	94	94
Enable cooling coil for dehumidif.	R/W	95	95
Enable recovery coil	R/W	96	96
Dehumidif contact logic (0=NO; 1=NC)	R/W	97	97
Enable FIFO compressor rotation	R/W	98	98
Enable compressor capacity-control steps	R/W	99	99
Cap. control contact logic (0=NO; 1=NC)	R/W	100	100
Type of temperature control (0=P; 1=P+l)	R/W	101	101
Enable built-in humidifier	R/W	102	102

Enable Carel Master Control	R/W	105	105
Enable Force units in pLAN	R/W	106	106
Enable On-Off time bands	R/W	107	107
Enable temperature time bands	R/W	108	108
Enable humidity time bands	R/W	109	109
Enable unit off from button	R/W	110	110
Enable remote On-Off dig. Input	R/W	111	111
Unit On-Off from supervisor	R/W	112	112
Digital output 7 configuration (0=recovery valve; 1=minor alarms)	R/W	113	113
Select temperature unit of measure	R/W	114	114
Enable clock card (pCO1)	R/W	115	115
Enable printer	R/W	116	116
Confirm hour setting	R/W	117	117
Confirm minute setting	R/W	118	118
Confirm day setting	R/W	119	119
Confirm month setting	R/W	120	120
Confirm year setting	R/W	121	121
Reset alarms from supervisor	R/W	123	123
pLAN disconnected	R	124	124
Driver 1 alarm, probes fault or offline	R	125	125
Driver 1 EEPROM error	R	126	126

Driver 1 step motor error	R	127	127
Driver 1 battery error	R	128	128
Driver 1 high evaporation pressure (MOP)	R	129	129
Driver 1 low evaporation pressure (LOP)	R	130	130
Driver 1 low superheat	R	131	131
Driver 1 valve not closed during power OFF	R	132	132
Driver 1 high suction temperature	R	133	133
Driver 2 alarm, probes fault or offline	R	134	134
Driver 2 EEPROM error	R	135	135
Driver 2 step motor error	R	136	136
Driver 2 battery error	R	137	137
Driver 2 high evaporation pressure (MOP)	R	138	138
Driver 2 low evaporation pressure (LOP)	R	139	139
Driver 2 low superheat	R	140	140
Driver 2 valve not closed during power OFF	R	141	141
Driver 2 high suction temperature	R	142	142
High conductivity in the humidifier alarm	R	143	143
High conductivity in the humidifier pre-alarm	R	144	144
Low production of steam in the humidifier	R	145	145
Water drain alarm in the humidifier	R	146	146
Cylinder full alarm in the humidifier	R	147	147
Cylinder pre-exhaustion warning in the humidifier	R	148	148
Presence of foam warning in the humidifier	R	149	149
Cylinder exhaustion warning in the humidifier	R	150	150
Working hours of the humidifier pre-alarm	R	151	151
Working hours of the humidifier alarm	R	152	152
Expansion card connection alarm	R	153	153
Coil probe fault or offline	R	154	154
Freecooling coil antifreeze alarm	R	155	155
Dry-cooler alarm	R	156	156
External fan overload alarm	R	157	157
Phase sequence alarm	R	158	158
Air differential pressure probe fault or offline	R	159	159
High inlet water temperature alarm	R	160	160
Dual cooling: normal mode alarm	R	161	161
Dual cooling: emergency activation warning	R	162	162
Compressor inverter alarm	R	163	163

Analoge variabelen:

	Type	Carel adres	Modbus adres
Room humidity probe reading	R	1	1
Pressure probe 1 reading	R	2	2
Pressure probe 2 reading	R	3	3
Room temperature probe reading	R	4	4
Air outlet temperature probe reading	R	5	5
Outside temperature probe reading	R	6	6
Cond. 1 temperature probe reading	R	7	7
Cond. 2 temperature probe reading	R	8	8
Water recovery temperature probe reading	R	9	9
Temperature set point	R/W	10	10
Minimum temperature set point limit	R/W	11	11
Maximum temperature set point limit	R/W	12	12
Humidity set point	R/W	13	13
Minimum humidity set point limit	R/W	14	14
Maximum humidity set point limit	R/W	15	15
Temperature time band set point Z1	R/W	16	16
Temperature time band set point Z2	R/W	17	17
Temperature time band set point Z3	R/W	18	18
Temperature time band set point Z4	R/W	19	19
Humidity time band set point Z1	R/W	20	20
Humidity time band set point Z2	R/W	21	21
Humidity time band set point Z3	R/W	22	22
Humidity time band set point Z4	R/W	23	23
Temperature dead zone	R/W	24	24
Proportional band in Cooling	R/W	25	25
Proportional band in Heating	R/W	26	26
Proportional band in Humidification	R/W	27	27
Proportional band in Dehumidification	R/W	28	28
Maximum compensation set temp. Offset	R/W	29	29
Outside temperature probe calibration	R/W	30	30
Condens. 1 pressure probe calibration	R/W	31	31
Condens. 2 pressure probe calibration	R/W	32	32
Humidity probe calibration	R/W	33	33
Room temperature probe calibration	R/W	34	34
Outlet temperature probe calibration	R/W	35	35
Condens.1 temperature probe calibration	R/W	36	36
Condens.2 temperature probe calibration	R/W	37	37
Recovery temperature probe calibration	R/W	38	38
Stop dehumidification temp. Differential	R/W	39	39
Air outlet differential	R/W	40	40
Outside air differential for compensation	R/W	41	41
High pressure alarm differential	R/W	42	42

Condensing (pressure) differential	R/W	43	43
Condensing (temp.) differential	R/W	44	44
Max condenser fan speed	R/W	45	45
Min condenser fan speed	R/W	46	46
Condensing (pressure) set point	R/W	47	47
Condensing (temperature) set point	R/W	48	48
High ambient temperature differential to force units in netw	R/W	49	49
Low ambient temperature differential to force units in netw	R/W	50	50
High ambient temperature offset to force units in network	R/W	51	51
Low ambient temperature offset to force units in network	R/W	52	52
High ambient temperature alarm offset	R/W	53	53
Low ambient temperature alarm offset	R/W	54	54
High ambient humidity alarm offset	R/W	55	55
Low ambient humidity alarm offset	R/W	56	56
Maximum outlet fan speed	R/W	57	57
Minimum outlet fan speed	R/W	58	58
Maximum humidifier production	R/W	59	59
End point to open modulating humidifier output R/W 60 60	R/W	60	60
Starting point to open modulating humidifier output R/W 61	R/W	61	61
Maximum value humidity probe	R/W	62	62
Minimum value humidity probe	R/W	63	63
Maximum value pressure probe 1	R/W	64	64
Minimum value pressure probe 1	R/W	65	65
Maximum value pressure probe 2	R/W	66	66
Minimum value pressure probe 2	R/W	67	67
Restart dehumidification temp. Offset	R/W	68	68
Prevent (pressure) differential	R/W	69	69
Prevent (temperature) differential	R/W	70	70
Prevent (pressure) set point	R/W	71	71
Prevent (temperature) set point	R/W	72	72
Water recovery set point temperature	R/W	73	73
High pressure alarm set point	R/W	74	74
Air outlet set point	R/W	75	75
Outside air set point for compensation	R/W	76	76
Outlet fan speed in dehumid.	R/W	77	77
Current superheating value driver 1	R	78	78
Evaporation temperature driver 1	R	79	79
Suction temperature driver 1	R	80	80
Evaporation pressure driver 1	R	81	81
Condensing temperature driver 1	R	82	82
Current superheating value driver 2	R	83	83
Evaporation temperature driver 2	R	84	84
Suction temperature driver 2	R	85	85
Evaporation pressure driver 2	R	86	86
Condensing temperature driver 2	R	87	87

Integere variabelen:

	Type	Carel adres	Modbus adres
Analogue output 1	R	1	129
Analogue output 2	R	2	130
Analogue output 3	R	3	131
Analogue output 4	R	4	132
Current hour	R	5	133
Current minutes	R	6	134
Day	R	7	135
Month	R	8	136
Year	R	9	137
Weekday	R	10	138
Integer unit type (0=DX, 1=CW, 2=DUAL COOLING)	R	11	139
Unit status	R	12	140
Analogue output 1 of pCOExpansion	R	13	141
Hour setting	R/W	14	142
Minute setting	R/W	15	143
Day setting	R/W	16	144
Month setting	R/W	17	145
Year setting	R/W	18	146
Number of compressors	R/W	20	148
Number of compressors for dehumidify	R/W	21	149
Select number of On-Off fans	R/W	22	150
Humber of heaters	R/W	23	151
Probe 2 input configuration (0=cond. 1 press.; 1=cond.1 temp.; 2=outlet temp.)	R/W	24	152
Probe 3 input configuration (0= cond.2 press.; 1=cond.2 temp.; 2=recovery temp.)	R/W	25	153
Digital input 5 configuration (0=flood; 1=filters; 2=fire/smoke)	R/W	26	154
Type of signal from the humidity probe (2=0-1V; 3=0-10V; 4=current)	R/W	27	155
Type of signal pressure probe 1 (2=0-1V; 3=0-10V; 4=current)	R/W	28	156
Type of signal pressure probe 2 (2=0-1V; 3=0-10V; 4=current)	R/W	29	157
Type of signal condens. 1 T probe (0=NTC; 1=PT1000; 2=0-1V; 3=0-10V; 4=current)	R/W	30	158
Type of signal condens. 2 T probe (0=NTC; 1=PT1000; 2=0-1V; 3=0-10V; 4=current)	R/W	31	159
Type of signal from the temperature probe external (0=NTC; 1=PT1000)	R/W	32	160
Type of signal from recovery temperature probe (0=NTC; 1=PT1000)	R/W	33	161
Type of signal from room temperature probe (0=NTC; 1=PT1000)	R/W	34	162

Type of signal from outlet temperature probe (0=NTC; 1=PT1000)	R/W	35	163
Select refrigerant (0=no; 1=R22; 2=134a; 3=404a; 4=407C; 5=410A)	R/W	36	164
Air flow switch alarm delay	R/W	37	165
Outlet fan off delay	R/W	38	166
Outlet fan start delay	R/W	39	167
Delay in activating minor alarm relay no.13	R/W	40	168
Delay in activating serious alarm relay no.8	R/W	41	169
Water flow switch alarm delay	R/W	42	170
Delay between starts of different compressors	R/W	43	171
Heater start delay	R/W	44	172
Low pressure alarm delay	R/W	45	173
Integration time for P+I control	R/W	46	174
Minimum compressor off time	R/W	47	175
Minimum compressor on time	R/W	48	176
Delay between compressor starts	R/W	49	177
Cap. control activation delay	R/W	50	178
3 position valve travel time	R/W	51	179
High-low temperature-humidity alarm delay	R/W	52	180
High conductivity pre-alarm threshold	R/W	53	181
High conductivity alarm delay	R/W	54	182
Type of humidifier	R/W	55	183
History alarm 1 part 1 (minute, hour)	R	56	186
History alarm 1 part 2 (day, month)	R	57	186
History alarm 1 part 3 (year, code)	R	58	186
History alarm 2 part 1 (minute, hour)	R	59	187
History alarm 2 part 2 (day, month)	R	60	188
History alarm 2 part 3 (year, code)	R	61	189
History alarm 3 part 1 (minute, hour)	R	62	190
History alarm 3 part 2 (day, month)	R	63	191
History alarm 3 part 3 (year, code)	R	64	192
History alarm 4 part 1 (minute, hour)	R	65	193
History alarm 4 part 2 (day, month)	R	66	194
History alarm 4 part 3 (year, code)	R	67	195
History alarm 5 part 1 (minute, hour)	R	68	196
History alarm 5 part 2 (day, month)	R	69	197
History alarm 5 part 3 (year, code)	R	70	198
History alarm 6 part 1 (minute, hour)	R	71	199
History alarm 6 part 2 (day, month)	R	72	200
History alarm 6 part 3 (year, code)	R	73	201
History alarm 7 part 1 (minute, hour)	R	74	202
History alarm 7 part 2 (day, month)	R	75	203
History alarm 7 part 3 (year, code)	R	76	204
History alarm 8 part 1 (minute, hour)	R	77	205

History alarm 8 part 2 (day, month)	R	78	206
History alarm 8 part 3 (year, code)	R	79	207
History alarm 9 part 1 (minute, hour)	R	80	208
History alarm 9 part 2 (day, month)	R	81	209
History alarm 9 part 3 (year, code)	R	82	210
History alarm 10 part 1 (minute, hour)	R	83	211
History alarm 10 part 2 (day, month)	R	84	212
History alarm 10 part 3 (year, code)	R	85	213
Cond. fan Speed-up time	R/W	93	221
Compressor 1 operating hours threshold	R/W	94	222
Compressor 2 operating hours threshold	R/W	95	223
Fan operating hour threshold	R/W	97	225
Rotation mode for units in pLAN network	R/W	98	226
Forcing delay for high ambient temp.	R/W	99	227
Forcing delay for low ambient temp.	R/W	100	228
Interval in days for automatic rotation	R/W	101	229
Hour automatic rotation	R/W	102	230
Minutes automatic rotation	R/W	103	231
Number of units in Standby mode R/W 105 233	R/W	105	233
Automatic rotation interval for units in pLAN	R/W	106	234
pLAN connection class board 1 (0=not present; 1=present/no rot.; 2=present/rotation)	R/W	107	235
pLAN connection class board 2 (0=not present; 1=present/no rot.; 2=present/rotation)	R/W	108	236
pLAN connection class board 3 (0=not present; 1=present/no rot.; 2=present/rotation)	R/W	109	237
pLAN connection class board 4 (0=not present; 1=present/no rot.; 2=present/rotation)	R/W	110	238
pLAN connection class board 5 (0=not present; 1=present/no rot.; 2=present/rotation)	R/W	111	239
pLAN connection class board 6 (0=not present; 1=present/no rot.; 2=present/rotation)	R/W	112	240
pLAN connection class board 7 (0=not present; 1=present/no rot.; 2=present/rotation)	R/W	113	241
pLAN connection class board 8 (0=not present; 1=present/no rot.; 2=present/rotation)	R/W	114	242
Valve position driver 1	R	115	243
Valve position driver 2	R	116	244
Humidifier configuration: periodic drain hours	R/W	117	245
Humidifier configuration: stop delay seconds	R/W	118	246
Humidifier config.: Drain after humid. inactive hours	R/W	119	247
Humidifier config.: Threshold running hours alarm	R/W	120	248
Humidifier config.: Man. Conduct. value (0-2000 uS/cm)	R/W	121	249