

**eliwell**

# **ERT 400**

## **Modbus Serial Communication Protocol**



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## 2 MODBUS FUNCTIONS AND RESOURCES

Modbus is a master-slave / client-server communication protocol for communication between [network](#) connected devices. Modbus devices communicate using a master-slave / client-server technique in which only one device (the master) can send queries. The other [network](#) devices (slaves) respond by supplying the data requested by the master or by taking the action requested in the query. A slave is any device connected to the [network](#) which processes information and sends its output to the master using the Modbus protocol.

Masters can [address](#) individual slaves or send broadcast messages to the entire [network](#) whereas slaves only return a response to queries from masters addressed to them individually.

The Modbus standard used by Eliwell uses the RTU protocol for data transmission.

### 2.1 Data format (RTU)

The code model used defines the structure of the messages transmitted on the [network](#) and the way this information is decoded. The type of code is usually selected according to specific parameters (baud rate, parity, etc...). Some devices only support certain code models but the same one must be used for all the devices connected to a Modbus [network](#). The protocol uses the RTU binary method with the bytes containing:

8 data bits, even parity bits (non configurable), 1 stop bit.

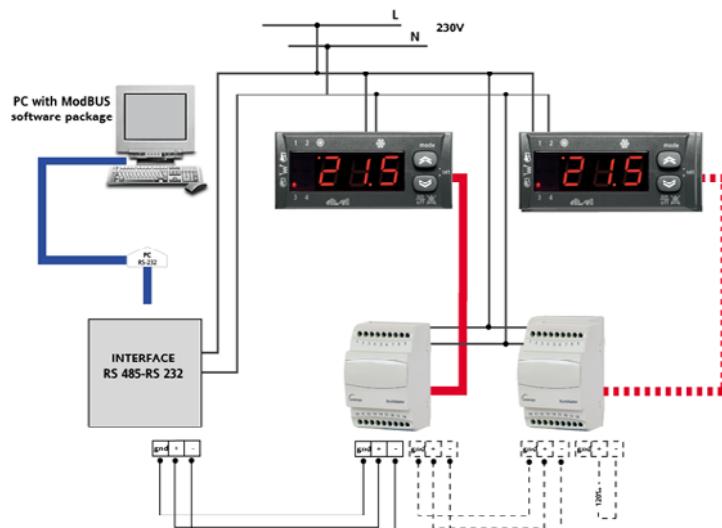
**NOTE: the baud rate must be set to 9600 bauds.**

Parameters can be set so that the [device](#) is fully configurable

Parameters can be changed using:

- device keyboard
- Copy Card
- by sending the data via the ModBus protocol straight to a single device or by sending a broadcast message using [address](#) 0 (broadcast [address](#))

Diagram of  
Modbus  
connection to  
multi-unit



### 2.2 Network

PC/Interface connection	RS232 cable
Device/Bus Adapter connection	5-path connector TTL cable (30cm) (other sizes/lengths available)
Bus Adapter	BA150
Bus Adapter/Interface connection	RS485 cable shielded and twisted (e.g.: Belden cable model 8762)

### 2.3 Modbus functions available and data areas

Function Code	Description of command
3	Read 12 consecutive registers for Client side Read 1 single register for parameters.
16	Write 11 consecutive registers for Client side Write 1 register for parameters

**Product codes** A specific product can be univocally recognized by the Family/Version hexadecimal values and PCH. With regard to the ERT400:

Fam/Ver: "0091000F" composed of Family Code 0091 = 145 and version 000F = 15  
PCH: "20"= 32

**CAUTION** A request must be sent to read 2 registers (WORD) to have 1 read. If a request to read only one register is made, the highest byte is read.

**CAUTION** To write values in WORDs a write request for 2 registers must be sent in order to obtain 2 responses.

## 2.4 Address configuration

The device *address* in a ModBus message contains one byte and consists of the family code and the device code made up of parameters H67 and H68 respectively.

The Device *Address* therefore consists of two nibbles:

- **H68:** low nibble
- **H67:** high nibble

To calculate the *address* using parameters H67 and H68:

$$\text{address} = \text{H67} \times 16 + \text{H68}$$

For example: *address* (HEX) 16 (H44=01; H45=00)

*Address* 0 is used for broadcast queries that are recognized by all the slaves. Slaves do not respond to broadcast queries.

DEVICE CONFIGURATION PARAMETERS			
Par.	Description	Range	Value
<b>H67</b>	Family serial <i>address</i>	0...14	0
<b>H68</b>	Device serial <i>address</i>	0...14	0

## 2.5 Address tables

### 2.5.1 Description of parameters

The *address tables* contain the necessary read, write and decode information for each single resource accessible in the device.

There are two tables:

- the *parameter table* contains all the device configuration parameters stored in the non-volatile memory of the device.
- the *client table* includes all the I/O and alarm status resources available in the volatile memory of the device.

**Description of columns:**

**INDEX** For the *parameter table* this value represents the order in which the parameter is displayed in the device menu. For the *client table* this value is not significant.

**FOLDER** This indicates the *folder label* containing the relevant parameter

**LABEL** Indicates the *label* used to display the **parameters** in the device menu.

**ADDRESS** The whole part represents the MODBUS register *address* containing the value of the resource to read or write in the device. The value after the comma indicates the position of the most significant bit of the data in the register; if it is not stated, it equals zero. This information is always provided when the register contains more than one data element and it is important to understand which bits actually represent the data element (the size of the data indicated in the **DATA SIZE** column is also considered). Since Modbus registers are the size of one WORD (16 bits), the *index* after the comma can vary from 0 (least significant bit -LSb-) to 15 (most significant bit -MSb-).

Examples (in binary representation the least significant bit is the rightmost bit)

ADDRESS	Register	DATA SIZE	Value
8806	1350 (0000010101000110)	WORD	1350
8806	1350 (000001010 <b>1000110</b> )	Byte	70
8806,8	1350 ( <b>0000010101000110</b> )	Byte	5
8806,14	1350 (0000010101000110)	1 bit	0
8806,7	1350 (0000010101000110)	4 bits	10

Please note: when the register contains more than one data element, proceed as follows for the write operation:

- read the current value of the register
- modify the bits that represent the relevant resource
- write the register

<b>R/W</b>	Indicates the possibility of reading or writing the resource:  R        the resource is read only W        the resource is write only RW      the resource is read/write												
<b>DATA SIZE</b>	Indicates size of the data in bits.  WORD    =        16 bits Byte     =        8 bits "n" bit =        0...15 bits depending on "n"												
<b>CPL</b>	When "Y" is indicated, the value read by the register requires conversion because the value represents a number with a sign. In other instances, the value is always positive or null. For the conversion, see below: if the value of the register is between 0 and 32767, the result is the value itself (zero and positive values) if the value of the register is between 32768 and 65535, the result is the value of the register - 65536 (negative values)												
<b>RANGE</b>	This describes the <i>range</i> of values permitted for the parameter. It can be correlated with other device parameters (indicated with parameter <i>label</i> ).												
<b>DEFAULT</b>	Indicates the factory set value for the standard model of the device.												
<b>EXP</b>	This is the multiplier <i>index</i> that must be applied to convert the value read by the register to the values indicated in the <b>RANGE</b> and <b>DEFAULT</b> column in order to convert them into the final values based on the unit of measurement indicated in the <b>M.U</b> column. The multiplier is calculated using the exponential function with base 10 and the exponent indicated in the <b>EXP</b> column. When not indicated, its value is 0. Valid values are as below:												
	<table> <thead> <tr> <th>Value</th> <th>Corresponding multiplier</th> </tr> </thead> <tbody> <tr> <td>-2</td> <td><math>10^{-2}</math> ( 0,01 )</td> </tr> <tr> <td>-1</td> <td><math>10^{-1}</math> ( 0,1 )</td> </tr> <tr> <td>0</td> <td><math>10^0</math> ( 1 )</td> </tr> <tr> <td>1</td> <td><math>10^1</math> ( 10 )</td> </tr> <tr> <td>2</td> <td><math>10^2</math> ( 100 )</td> </tr> </tbody> </table>	Value	Corresponding multiplier	-2	$10^{-2}$ ( 0,01 )	-1	$10^{-1}$ ( 0,1 )	0	$10^0$ ( 1 )	1	$10^1$ ( 10 )	2	$10^2$ ( 100 )
Value	Corresponding multiplier												
-2	$10^{-2}$ ( 0,01 )												
-1	$10^{-1}$ ( 0,1 )												
0	$10^0$ ( 1 )												
1	$10^1$ ( 10 )												
2	$10^2$ ( 100 )												
<b>M.U.</b>	Unit of measurement of values converted according to the rules indicated in columns <b>CPL</b> and <b>EXP</b> .												

## 2.5.2 Parameter Table

Read: 1 WORD Write: 1 WORD											
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
1	SEt	G01	2049	RW	Set point Cooling	WORD	Y	H04 ... H03	250	-1	°C
2	SEt	G02	2050	RW	Set point Heating	WORD	Y	H02 ... H01	210	-1	°C
3	CnF	H01	2051	RW	Max set point Heating	WORD	Y	G02 ... G01	300	-1	°C
4	CnF	H02	2052	RW	Min set point Heating	WORD	Y	-400 ... G02	150	-1	°C
5	CnF	H03	2053	RW	Max set point Cooling	WORD	Y	G01 ... 900	280	-1	°C
6	CnF	H04	2054	RW	Min set point Cooling	WORD	Y	G02 ... G01	100	-1	°C
7	CnF	H05	2055	RW	Number of circuits	WORD		0 ... 2	2		Num
8	CnF	H06	2056	RW	Number of compressors per circuit	WORD		0 ... 4	2		Num
9	CnF	H07	2057	RW	Number of stages per compressor	WORD		0 ... 3	0		Num
10	CnF	H08	2058	RW	Compressor selection rule	WORD		0 ... 1	0		Flag
11	CnF	H09	2059	RW	Circuit selection rule	WORD		0 ... 1	1		Flag
12	CnF	H10	2060	RW	Heat pump presence	WORD		0 ... 1	1		Flag
13	CnF	H11	2061	RW	AI1 configuration	WORD		0 ... 2	1		Num
14	CnF	H12	2062	RW	AI2 configuration	WORD		0 ... 2	1		Num
15	CnF	H13	2063	RW	AI3 configuration	WORD		0 ... 3	1		Num
16	CnF	H14	2064	RW	AI4 configuration	WORD		0 ... 2	1		Num
17	CnF	H15	2065	RW	AI5 configuration	WORD		0 ... 3	0		Num
18	CnF	H16	2066	RW	AI6 configuration	WORD		0 ... 3	1		Num
19	CnF	H17	2067	RW	Pressure end of scale value	WORD		0 ... 350	300	1	Kpa
20	CnF	H18	2068	RW	ID1 ID2 ID3 ID4 polarity	WORD		0 ... 15	15		Num
21	CnF	H19	2069	RW	ID5 ID6 ID7 ID8 polarity	WORD		0 ... 15	15		Num
22	CnF	H20	2070	RW	ID9 ID10 ID11 AI4 polarity	WORD		0 ... 15	15		Num
23	CnF	H21	2071	RW	Init scale AI3 (H13=1)	WORD		0 ... 100	0		%
24	CnF	H22	2072	RW	End scale AI3 (H13=1)	WORD		0 ... 100	100		%
25	CnF	H23	2073	RW	ID1 configuration	WORD		0 ... 25	4		Num
26	CnF	H24	2074	RW	ID2 configuration	WORD		0 ... 25	5		Num
27	CnF	H25	2075	RW	ID3 configuration	WORD		0 ... 25	6		Num
28	CnF	H26	2076	RW	ID4 configuration	WORD		0 ... 25	7		Num
29	CnF	H27	2077	RW	ID5 configuration	WORD		0 ... 25	8		Num
30	CnF	H28	2078	RW	ID6 configuration	WORD		0 ... 25	9		Num
31	CnF	H29	2079	RW	ID7 configuration	WORD		0 ... 25	10		Num

Read: 1 WORD Write: 1 WORD											
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
32	CnF	H30	2080	RW	ID8 configuration	WORD		0 ... 25	11		Num
33	CnF	H31	2081	RW	ID9 configuration	WORD		0 ... 25	12		Num
34	CnF	H32	2082	RW	ID10 configuration	WORD		0 ... 25	13		Num
35	CnF	H33	2083	RW	ID11 configuration	WORD		0 ... 25	25		Num
36	CnF	H34	2084	RW	Pressure end of scale value	WORD		0 ... 255	100		Num
37	CnF	H35	2085	RW	RL2 output relay configuration	WORD		0 ... 16	7		Num
38	CnF	H36	2086	RW	RL3 output relay configuration	WORD		0 ... 16	1		Num
39	CnF	H37	2087	RW	RL4 output relay configuration	WORD		0 ... 16	8		Num
40	CnF	H38	2088	RW	RL5 output relay configuration	WORD		0 ... 16	9		Num
41	CnF	H39	2089	RW	RL6 output relay configuration	WORD		0 ... 16	2		Num
42	CnF	H40	2090	RW	RL7 output relay configuration	WORD		0 ... 16	6		Num
43	CnF	H41	2091	RW	RL1 polarity	WORD		0 ... 1	0		Flag
44	CnF	H42	2092	RW	RL2 polarity	WORD		0 ... 1	0		Flag
45	CnF	H43	2093	RW	RL3 polarity	WORD		0 ... 1	0		Flag
46	CnF	H44	2094	RW	RL4 polarity	WORD		0 ... 1	0		Flag
47	CnF	H45	2095	RW	Alarm relay polarity	WORD		0 ... 1	0		Flag
48	CnF	H46	2096	RW	Fan output configuration	WORD		0 ... 1	0		Flag
49	CnF	H47	2097	RW	Fan output configuration	WORD		0 ... 2	0		Flag
50	CnF	H48	2098	RW	Enabled Heating mode	WORD		0 ... 1	1		Flag
51	CnF	H49	2099	RW	Configuration mode selection	WORD		0 ... 2	0		Num
52	CnF	H50	2100	RW	Enabled "dynamic set point"	WORD		0 ... 1	0		Flag
53	CnF	H51	2101	RW	Offset "dynamic set point" Cooling	WORD	Y	-500 ... 800	50	-1	°C
54	CnF	H52	2102	RW	Offset "dynamic set point" Heating	WORD	Y	-500 ... 800	10	-1	°C
55	CnF	H53	2103	RW	Set point "dynamic set point" Heating	WORD	Y	-127 ... 127	35		°C
56	CnF	H54	2104	RW	Set point "dynamic Set point" Cooling	WORD	Y	-127 ... 127	5		°C
57	CnF	H55	2105	RW	Proportional Band "dynamic set point" Cooling	WORD	Y	-500 ... 800	60	-1	°C
58	CnF	H56	2106	RW	Proportional Band "dynamic set point" Heating	WORD	Y	-500 ... 800	100	-1	°C
59	CnF	H57	2107	RW	AI1 offset	WORD	Y	-127 ... 127	0	-1	°C
60	CnF	H58	2108	RW	AI2 offset	WORD	Y	-127 ... 127	0	-1	°C
61	CnF	H59	2109	RW	AI3 offset	WORD	Y	-127 ... 127	0	-1	°C - Kpa*100

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
62	CnF	H60	2110	RW	AI4 offset	WORD	Y	-127 ... 127	0	-1	°C	
63	CnF	H61	2111	RW	AI5 offset	WORD	Y	-127 ... 127	0	-1	°C	
64	CnF	H62	2112	RW	AI6 offset	WORD	Y	-127 ... 127	0	-1	°C - Kpa*100	
65	CnF	H63	2113	RW	AI7 offset	WORD	Y	-127 ... 127	0	-1	°C	
66	CnF	H64	2114	RW	AI8 offset	WORD	Y	-127 ... 127	0	-1	°C	
67	CnF	H65	2115	RW	Power supply frequency	WORD		0 ... 1	0		Flag	
68	CnF	H66	2116	RW	Temperature unit (C/F)	WORD		0 ... 1	0		Flag	
69	CnF	H67	2117	RW	Family serial <i>address</i>	WORD		0 ... 14	0		Num	
70	CnF	H68	2118	RW	Device serial <i>address</i>	WORD		0 ... 14	0		Num	
71	CnF	H69	2119	RW	User password	WORD		0 ... 255	0		Num	
72	CnF	H70	2120	RW	Copy card password	WORD		0 ... 255	1		Num	
73	CnF	H71	2121	RW	Keyboard presence	WORD		0 ... 1	0		Flag	
74	CnF	H72	2122	RW	Min time Heating or Cooling	WORD		0 ... 255	10		Min	
75	CnF	H73	2123	RW	AI1 AI2 AI4 AI5 polarity	WORD		0 ... 15	0		Num	
76	CnF	H74	2124	RW	AI1 configuration as digital input	WORD		0 ... 25	0		Num	
77	CnF	H75	2125	RW	AI2 configuration as digital input	WORD		0 ... 25	0		Num	
78	CnF	H76	2126	RW	AI4 configuration as digital input	WORD		0 ... 25	0		Num	
79	CnF	H77	2127	RW	AI5 configuration as digital input	WORD		0 ... 25	0		Num	
80	CnF	H78	2128	RW	Enabled digital control	WORD		0 ... 1	0		Num	
81	CnF	H79	2129	RW	Enabled unbalanced circuits	WORD		0 ... 1	0		Num	
82	CnF	H80	2130	RW	Enabled control using EKW probe	WORD		0 ... 1	0		Num	
83	ALL	A01	2131	RW	Low pressure bypass time	WORD		0 ... 255	120		s	
84	ALL	A02	2132	RW	Low pressure alarm events per hour	WORD		0 ... 255	3		Num	
85	ALL	A03	2133	RW	Bypass time for flow switch alarm	WORD		0 ... 255	120		s	
86	ALL	A04	2134	RW	Active flow switch input duration	WORD		0 ... 255	120		s	
87	ALL	A05	2135	RW	Inactive flow switch input duration	WORD		0 ... 255	5		s	
88	ALL	A06	2136	RW	Flow switch events per hour	WORD		0 ... 255	0		Num	
89	ALL	A07	2137	RW	Bypass thermal protection compressor alarm	WORD		0 ... 255	0		s	
90	ALL	A08	2138	RW	Events per hour for thermal protection comp. alarm	WORD		0 ... 255	0		Num	
91	ALL	A09	2139	RW	Events per hour for fan thermal alarm	WORD		0 ... 255	0		Num	

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
92	ALL	A10	2140	RW	Bypass anti-freeze alarm	WORD		0 ... 255	0		Min	
93	ALL	A11	2141	RW	Set point anti-freeze alarm	WORD	Y	-127 ... 127	5		°C	
94	ALL	A12	2142	RW	Isteresis anti-freeze alarm	WORD		0 ... 255	30	-1	°C	
95	ALL	A13	2143	RW	Anti-freeze alarm events per hour	WORD		0 ... 255	3		Num	
96	ALL	A14	2144	RW	Anti-freeze probe selection	WORD		0 ... 3	0		Num	
97	ALL	A15	2145	RW	Configuration of fan with antifreeze alarm	WORD		0 ... 1	0		Flag	
98	ALL	A16	2146	RW	Configuration of fan with fire alarm	WORD		0 ... 3	0		Num	
99	ALL	A17	2147	RW	Set point inlet over temperature alarm	WORD		0 ... 255	40		°C	
100	ALL	A18	2148	RW	Inlet Over temperature duration	WORD		0 ... 255	100	1	s	
					Compressor status if inlet over temperature alarm	WORD		0 ... 1	1		Flag	
101	ALL	A19	2149	RW	Set point for dirty filter alarm hours	WORD		0 ... 999	0	2	h	
102	ALL	A20	2150	RW	Set point for obstructed filter alarm hours	WORD		0 ... 999	0	2	h	
					Enabled fan lock when filter alarm obstructed	WORD		0 ... 1	0		Flag	
104	ALL	A22	2152	RW	Filter alarm bypass time	WORD		0 ... 255	15		s	
105	ALL	A23	2153	RW	Set point for fan alarm lock DP	WORD		0 ... 255	5		Num	
106	ALL	A24	2154	RW	Set point for dirty filter alarm DP	WORD		0 ... 255	50		Num	
107	ALL	A25	2155	RW	Set point for obstructed filter alarm DP	WORD		0 ... 255	80		Num	
108	ALL	A26	2156	RW	Duration of DP dirty or obstructed filter alarm	WORD		0 ... 255	60		s	
109	ALL	A27	2157	RW	Duration of DP fan lock alarm	WORD		0 ... 255	10		s	
110	ALL	A28	2158	RW	Set point for maximum delivery air temperature	WORD	Y	-127 ... 127	50		°C	
111	ALL	A29	2159	RW	Set point for minimum delivery air temperature	WORD	Y	-127 ... 127	15		°C	
112	ALL	A30	2160	RW	Proportional band of delivery air temperature	WORD		0 ... 255	10	-1	°C	
113	ALL	A31	2161	RW	Configuration of alarm relay in remote OFF	WORD		0 ... 1	0		Flag	
114	ALL	A32	2162	RW	ON-OFF compressor delay	WORD		0 ... 255	18	1	s	
115	CP	C01	2163	RW	ON-ON compressor delay	WORD		0 ... 255	36	1	s	
116	CP	C02	2164	RW	Delay ON/ON compressors	WORD		0 ... 255	10		s	
117	CP	C03	2165	RW	Delay OFF/OFF compressors	WORD		0 ... 255	10		s	
118	CP	C04	2166	RW		WORD		0 ... 255	10		s	

Read: 1 WORD Write: 1 WORD											
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
119	CP	C05	2167	RW	Delay ON first / ON second compressor	WORD		0 ... 255	10		s
120	rE	b01	2168	RW	Proportional band Cooling	WORD		0 ... 255	40	-1	°C
121	rE	b02	2169	RW	Proportional band Heating	WORD		0 ... 255	40	-1	°C
122	rE	b03	2170	RW	Proportional band of supplementary electrical heaters	WORD		0 ... 255	40	-1	°C
123	rE	b04	2171	RW	Differential for supplementary electric heaters with HP ON	WORD		0 ... 255	40	-1	°C
124	rE	b05	2172	RW	Differential for supplementary electric heaters with HP OFF	WORD		0 ... 255	20	-1	°C
125	rE	b06	2173	RW	Proportional Band supplementary hot water battery	WORD		0 ... 255	0	-1	°C
126	rE	b07	2174	RW	Differential for hot water battery HP ON	WORD		0 ... 255	50	-1	°C
127	rE	b08	2175	RW	Differential for hot water battery HP OFF	WORD		0 ... 255	50	-1	°C
128	FAn	F01	2176	RW	Fan output configuration	WORD		0 ... 2	0		Num.
129	FAn	F02	2177	RW	Fan pickup time	WORD		0 ... 255	30	-1	s
130	FAn	F03	2178	RW	Fan phase shift	WORD		0 ... 100	8		%
131	FAn	F04	2179	RW	Triac pulse lenght	WORD		0 ... 255	30	-1	ms
132	FAn	F05	2180	RW	Operation on compressor ON	WORD		0 ... 1	0		Flag
133	FAn	F06	2181	RW	Min fan speed Cooling	WORD		0 ... 100	30		%
134	FAn	F07	2182	RW	Silent fan speed Cooling	WORD		0 ... 100	100		%
135	FAn	F08	2183	RW	T/P set point for min fan speed Cooling	WORD	Y	-500 ... 800	160	-1	°C - Kpa*100
136	FAn	F09	2184	RW	Proportional band Cooling	WORD		0 ... 255	30	-1	°C - Kpa*100
137	FAn	F10	2185	RW	Cut-off differential	WORD		0 ... 255	10	-1	°C - Kpa*100
138	FAn	F11	2186	RW	Cut-off hysteresis	WORD		0 ... 255	10	-1	°C - Kpa*100
139	FAn	F12	2187	RW	Cut-off bypass time	WORD		0 ... 255	0		s
140	FAn	F13	2188	RW	Max fan speed Cooling	WORD		0 ... 100	100		%
141	FAn	F14	2189	RW	T/P set point for max fan speed Cooling	WORD	Y	-500 ... 800	200	-1	°C - Kpa*100
142	FAn	F15	2190	RW	Min fan speed Heating	WORD		0 ... 100	10		%
143	FAn	F16	2191	RW	Silent fan speed Heating	WORD		0 ... 100	90		%
144	FAn	F17	2192	RW	T/P set point for max fan speed Heating	WORD	Y	-500 ... 800	50	-1	°C - Kpa*100
145	FAn	F18	2193	RW	Proportional band Heating	WORD		0 ... 255	10	-1	°C - Kpa*100
146	FAn	F19	2194	RW	Max fan speed in Heating	WORD		0 ... 100	100		%

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
147	FAn	F20	2195	RW	T/P set point for max fan speed Cooling	WORD	Y	-500 ... 800	35	-1	°C - Kpa*100	
148	FAn	F21	2196	RW	Preventional in Cooling	WORD		0 ... 255	0		s	
149	FAn	F22	2197	RW	Single or separate configuration	WORD		0 ... 1	0		Flag	
150	FAn	F23	2198	RW	Set point T/P fan in defrost	WORD	Y	-500 ... 800	170	-1	°C - Kpa*100	
151	FAn	F24	2199	RW	Isteresis fan in defrost	WORD		0 ... 255	20	-1	°C - Kpa*100	
152	PUP	P01	2200	RW	Pump ON - compressor ON delay	WORD		0 ... 255	2	1	s	
153	PUP	P02	2201	RW	Fan ON - compressor ON delay	WORD		0 ... 255	0		s	
154	PUP	P03	2202	RW	Compressor OFF - Fan OFF delay	WORD		0 ... 255	10		s	
155	PUP	P04	2203	RW	Enabled defrosting ventilation on	WORD		0 ... 1	1		Flag	
156	Fro	r01	2204	RW	Electric heater configuration in defrost	WORD		0 ... 1	0		Flag	
157	Fro	r02	2205	RW	Enabled electric heater Heating mode	WORD		0 ... 1	0		Flag	
158	Fro	r03	2206	RW	Enabled electric heater Cooling mode	WORD		0 ... 1	0		Flag	
159	Fro	r04	2207	RW	Configuration of electric heaters control probe	WORD		0 ... 3	0		Num	
160	Fro	r05	2208	RW	Number of steps of electric heaters	WORD		0 ... 4	0		Num	
161	Fro	r06	2209	RW	Electric heater configuration in OFF or STANDBY	WORD		0 ... 1	0		Flag	
162	Fro	r07	2210	RW	Set point electric heater Heating	WORD	Y	r10 ... r09	5		°C	
163	Fro	r08	2211	RW	Set point electric heater Cooling	WORD	Y	r10 ... r09	5		°C	
164	Fro	r09	2212	RW	Min set point electric heater	WORD	Y	r10 ... 127	50		°C	
165	Fro	r10	2213	RW	Max set point electric heater	WORD	Y	-127 ... r09	-10		°C	
166	Fro	r11	2214	RW	Hysteresis electric heater	WORD		0 ... 255	20	-1	°C	
167	Fro	r12	2215	RW	Enabled heat pump lock	WORD		0 ... 1	0		Flag	
168	Fro	r13	2216	RW	Set point heat pump lock	WORD	Y	-127 ... 127	8		°C	
169	Fro	r14	2217	RW	Hysteresis heat pump lock	WORD		0 ... 255	30	-1	°C	
170	Fro	r15	2218	RW	Enabled supplementary Electrical Heaters in Heating	WORD		0 ... 1	0		Flag	
171	Fro	r16	2219	RW	Enabled supplementary Electrical Heaters in dehumidification	WORD		0 ... 1	0		Flag	
172	Fro	r17	2220	RW	Hysterisis triggering pump due to external temperature	WORD		0 ... 255	10	-1	°C	
173	Fro	r18	2221	RW	Minimum hot water pump on time	WORD		0 ... 255	6	1	s	
174	Fro	r19	2222	RW	Enabled hot water in antifreeze	WORD		0 ... 1	0		Flag	

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
175	dFr	d01	2223	RW	Defrost enable	WORD		0 ... 1	1		Flag	
176	dFr	d02	2224	RW	Set point T/P start defrost	WORD	Y	-500 ... 800	40	-1	°C - Kpa*100	
177	dFr	d03	2225	RW	Cumulative time before defrost start	WORD		0 ... 255	30		Min	
178	dFr	d04	2226	RW	Set point T/P end defrost	WORD	Y	-500 ... 800	120	-1	°C - Kpa*100	
179	dFr	d05	2227	RW	Max defrost time	WORD		0 ... 255	5		Min	
180	dFr	d06	2228	RW	Valve delay at defrost start	WORD		0 ... 255	10		s	
181	dFr	d07	2229	RW	Valve-compressor delay at defrost start	WORD		0 ... 255	10		s	
182	dFr	d08	2230	RW	Dripping time	WORD		0 ... 255	30		s	
183	dFr	d09	2231	RW	Valve-compressor delay at defrost end	WORD		0 ... 255	10		s	
184	dFr	d10	2232	RW	Enabled fan during dripping	WORD		0 ... 1	0		Flag	
185	dFr	d11	2233	RW	Delay circuits defrost	WORD		0 ... 255	2		Min	
186	dFr	d12	2234	RW	Configuration end defrost probe circuit 1	WORD		0 ... 2	1		Num	
187	dFr	d13	2235	RW	Configuration end defrost probe circuit 2	WORD		0 ... 2	2		Num	
188	dFr	d14	2236	RW	Delay ON compressors defrost	WORD		0 ... 255	0		s	
189	ESP	N01	2237	RW	ID12 ID13 ID14 ID15 polarity	WORD		0 ... 15	0		Num	
190	ESP	N02	2238	RW	ID12 Configuration	WORD		0 ... 25	0		Num	
191	ESP	N03	2239	RW	ID13 Configuration	WORD		0 ... 25	0		Num	
192	ESP	N04	2240	RW	ID14 Configuration	WORD		0 ... 25	0		Num	
193	ESP	N05	2241	RW	ID15 Configuration	WORD		0 ... 25	0		Num	
194	ESP	N06	2242	RW	RL9 output relay configuration	WORD		0 ... 16	0		Num	
195	ESP	N07	2243	RW	RL10 output relay configuration	WORD		0 ... 16	0		Num	
196	ESP	N08	2244	RW	RL11 output relay configuration	WORD		0 ... 16	0		Num	
197	ESP	N09	2245	RW	RL12 output relay configuration	WORD		0 ... 16	0		Num	
198	ESP	N10	2246	RW	RL13 output relay configuration	WORD		0 ... 16	0		Num	
199	ESP	N11	2247	RW	AI7 Configuration	WORD		0 ... 2	0		Num	
200	ESP	N12	2248	RW	AI8 Configuration	WORD		0 ... 3	0		Num	
201	ESP	N13	2249	RW	AI7 AI8 polarity	WORD		0 ... 3	0		Num	
202	ESP	N14	2250	RW	AI7 configuration if digital input	WORD		0 ... 25	0		Num	
203	ESP	N15	2251	RW	AI8 configuration if digital	WORD		0 ... 25	0		Num	
204	FrC	L01	2252	RW	Enabled freecooling	WORD		0 ... 1	0		Flag	
205	FrC	L02	2253	RW	Offset freecooling Cooling	WORD		0 ... 255	150	-1	°C	

Read: 1 WORD Write: 1 WORD											
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
206	FrC	L03	2254	RW	Freecooling/freeheating proportional band Cooling	WORD		0 ... 255	100	-1	°C
207	FrC	L04	2255	RW	Offset freecooling Heating	WORD		0 ... 255	150	-1	°C
208	FrC	L05	2256	RW	Freecooling/freeheating proportional band Heating	WORD		0 ... 255	100	-1	°C
209	FrC	L06	2257	RW	Differential for freecooling T	WORD		0 ... 255	100	-1	°C
210	FrC	L07	2258	RW	Minimun opening damper	WORD		0 ... 100	30		%
211	FrC	L08	2259	RW	Set point for freecooling lock	WORD	Y	-127 ... 127	1		°C
212	FrC	L09	2260	RW	Hysterisis of freecooling lock	WORD		0 ... 255	200	-1	°C
213	FrC	L10	2261	RW	Set point for freecooling H Cooling	WORD		0 ... 255	50		KJ/Kg
214	FrC	L11	2262	RW	H freecooling proportional band Cooling	WORD		0 ... 255	5		KJ/Kg
215	FrC	L12	2263	RW	Set point for freecooling H Heating	WORD		0 ... 255	50		KJ/Kg
216	FrC	L13	2264	RW	H freecooling proportional band Heating	WORD		0 ... 255	5		KJ/Kg
217	FrC	L14	2265	RW	Differential for activation of freecooling H	WORD		0 ... 255	3		KJ/Kg
218	FrC	L15	2266	RW	External humidity simulation	WORD		0 ... 100	0		%
219	FrC	L16	2267	RW	Set point for humidification Heating	WORD		0 ... 100	30		%
220	FrC	L17	2268	RW	Set point for humidification Cooling	WORD		0 ... 100	35		%
221	FrC	L18	2269	RW	Humidification hysterisis	WORD		0 ... 100	5		%
222	FrC	L19	2270	RW	Set point for dehumidification	WORD		0 ... 100	50		%
223	FrC	L20	2271	RW	Dehumidification hysterisis	WORD		0 ... 100	4		%
224	FrC	L21	2272	RW	Differential for dehumidification lock temperature	WORD		0 ... 255	100	-1	°C
225	FrC	L22	2273	RW	Number of steps active during dehumidification	WORD		0 ... 4	4		Num
226	FrC	L23	2274	RW	Duration of "night purging" function	WORD		0 ... 255	1	1	Min
227	FrC	L24	2275	RW	Set point for "night purging"	WORD	Y	-127 ... 127	15		°C
228	FrC	L25	2276	RW	Differential for economy function	WORD	Y	-127 ... 127	50	-1	°C
229	FrC	L26	2277	RW	Set point CO2 for minimum gate opening	WORD		0 ... 100	10		%
230		SEt		RW	SEt	WORD		0 ... 0	0		Num
231		tp		RW	TP	WORD		0 ... 0	0		Num
232		Err		RW	ERR	WORD		0 ... 0	0		Num
233		id		RW	ID	WORD		0 ... 0	0		Num

Read: 1 WORD Write: 1 WORD											
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
234		PAr		RW	PAr	WORD		0 ... 0	0		Num
235		PSS		RW	PSS	WORD		0 ... 0	0		Num
236		OHr		RW	OHr	WORD		0 ... 0	0		Num
237		Coo		RW	COO	WORD		0 ... 0	0		Num
238		HEA		RW	HEA	WORD		0 ... 0	0		Num
239		CnF		RW	CnF	WORD		0 ... 0	0		Num
240		ALL		RW	ALL	WORD		0 ... 0	0		Num
241		CP		RW	CP	WORD		0 ... 0	0		Num
242		rE		RW	rE (Y)	WORD		0 ... 0	0		Num
243		FAn		RW	FAN	WORD		0 ... 0	0		Num
244		PUP		RW	PUP	WORD		0 ... 0	0		Num
245		Fro		RW	Fro	WORD		0 ... 0	0		Num
246		dFr		RW	dFr	WORD		0 ... 0	0		Num
247		ESP		RW	ESP	WORD		0 ... 0	0		Num
248		FrC		RW	FrC	WORD		0 ... 0	0		Num
249		OH1		RW	OH1	WORD		0 ... 0	0		Num
250		OH2		RW	OH2	WORD		0 ... 0	0		Num
251		OH3		RW	OH3	WORD		0 ... 0	0		Num
252		OH4		RW	OH4	WORD		0 ... 0	0		Num
253		OHF		RW	OHF	WORD		0 ... 0	0		Num
254		G01	6145	RW	Parameter visibility	WORD		0 ... 0	0		Num
255		G02	6146	RW	Parameter visibility	WORD		0 ... 0	0		Num
256		H01	6147	RW	Parameter visibility	WORD		0 ... 0	0		Num
257		H02	6148	RW	Parameter visibility	WORD		0 ... 0	0		Num
258		H03	6149	RW	Parameter visibility	WORD		0 ... 0	0		Num
259		H04	6150	RW	Parameter visibility	WORD		0 ... 0	0		Num
260		H05	6151	RW	Parameter visibility	WORD		0 ... 0	0		Num
261		H06	6152	RW	Parameter visibility	WORD		0 ... 0	0		Num
262		H07	6153	RW	Parameter visibility	WORD		0 ... 0	0		Num
263		H08	6154	RW	Parameter visibility	WORD		0 ... 0	0		Num
264		H09	6155	RW	Parameter visibility	WORD		0 ... 0	0		Num

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
265		H10	6156	RW	Parameter visibility	WORD		0 ... 0	0		Num	
266		H11	6157	RW	Parameter visibility	WORD		0 ... 0	0		Num	
267		H12	6158	RW	Parameter visibility	WORD		0 ... 0	0		Num	
268		H13	6159	RW	Parameter visibility	WORD		0 ... 0	0		Num	
269		H14	6160	RW	Parameter visibility	WORD		0 ... 0	0		Num	
270		H15	6161	RW	Parameter visibility	WORD		0 ... 0	0		Num	
271		H16	6162	RW	Parameter visibility	WORD		0 ... 0	0		Num	
272		H17	6163	RW	Parameter visibility	WORD		0 ... 0	0		Num	
273		H18	6164	RW	Parameter visibility	WORD		0 ... 0	0		Num	
274		H19	6165	RW	Parameter visibility	WORD		0 ... 0	0		Num	
275		H20	6166	RW	Parameter visibility	WORD		0 ... 0	0		Num	
276		H21	6167	RW	Parameter visibility	WORD		0 ... 0	0		Num	
277		H22	6168	RW	Parameter visibility	WORD		0 ... 0	0		Num	
278		H23	6169	RW	Parameter visibility	WORD		0 ... 0	0		Num	
279		H24	6170	RW	Parameter visibility	WORD		0 ... 0	0		Num	
280		H25	6171	RW	Parameter visibility	WORD		0 ... 0	0		Num	
281		H26	6172	RW	Parameter visibility	WORD		0 ... 0	0		Num	
282		H27	6173	RW	Parameter visibility	WORD		0 ... 0	0		Num	
283		H28	6174	RW	Parameter visibility	WORD		0 ... 0	0		Num	
284		H29	6175	RW	Parameter visibility	WORD		0 ... 0	0		Num	
285		H30	6176	RW	Parameter visibility	WORD		0 ... 0	0		Num	
286		H31	6177	RW	Parameter visibility	WORD		0 ... 0	0		Num	
287		H32	6178	RW	Parameter visibility	WORD		0 ... 0	0		Num	
288		H33	6179	RW	Parameter visibility	WORD		0 ... 0	0		Num	
289		H34	6180	RW	Parameter visibility	WORD		0 ... 0	0		Num	
290		H35	6181	RW	Parameter visibility	WORD		0 ... 0	0		Num	
291		H36	6182	RW	Parameter visibility	WORD		0 ... 0	0		Num	
292		H37	6183	RW	Parameter visibility	WORD		0 ... 0	0		Num	
293		H38	6184	RW	Parameter visibility	WORD		0 ... 0	0		Num	
294		H39	6185	RW	Parameter visibility	WORD		0 ... 0	0		Num	
295		H40	6186	RW	Parameter visibility	WORD		0 ... 0	0		Num	

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
296		H41	6187	RW	Parameter visibility	WORD		0 ... 0	0		Num	
297		H42	6188	RW	Parameter visibility	WORD		0 ... 0	0		Num	
298		H43	6189	RW	Parameter visibility	WORD		0 ... 0	0		Num	
299		H44	6190	RW	Parameter visibility	WORD		0 ... 0	0		Num	
300		H45	6191	RW	Parameter visibility	WORD		0 ... 0	0		Num	
301		H46	6192	RW	Parameter visibility	WORD		0 ... 0	0		Num	
302		H47	6193	RW	Parameter visibility	WORD		0 ... 0	0		Num	
303		H48	6194	RW	Parameter visibility	WORD		0 ... 0	0		Num	
304		H49	6195	RW	Parameter visibility	WORD		0 ... 0	0		Num	
305		H50	6196	RW	Parameter visibility	WORD		0 ... 0	0		Num	
306		H51	6197	RW	Parameter visibility	WORD		0 ... 0	0		Num	
307		H52	6198	RW	Parameter visibility	WORD		0 ... 0	0		Num	
308		H53	6199	RW	Parameter visibility	WORD		0 ... 0	0		Num	
309		H54	6200	RW	Parameter visibility	WORD		0 ... 0	0		Num	
310		H55	6201	RW	Parameter visibility	WORD		0 ... 0	0		Num	
311		H56	6202	RW	Parameter visibility	WORD		0 ... 0	0		Num	
312		H57	6203	RW	Parameter visibility	WORD		0 ... 0	0		Num	
313		H58	6204	RW	Parameter visibility	WORD		0 ... 0	0		Num	
314		H59	6205	RW	Parameter visibility	WORD		0 ... 0	0		Num	
315		H60	6206	RW	Parameter visibility	WORD		0 ... 0	0		Num	
316		H61	6207	RW	Parameter visibility	WORD		0 ... 0	0		Num	
317		H62	6208	RW	Parameter visibility	WORD		0 ... 0	0		Num	
318		H63	6209	RW	Parameter visibility	WORD		0 ... 0	0		Num	
319		H64	6210	RW	Parameter visibility	WORD		0 ... 0	0		Num	
320		H65	6211	RW	Parameter visibility	WORD		0 ... 0	0		Num	
321		H66	6212	RW	Parameter visibility	WORD		0 ... 0	0		Num	
322		H67	6213	RW	Parameter visibility	WORD		0 ... 0	0		Num	
323		H68	6214	RW	Parameter visibility	WORD		0 ... 0	0		Num	
324		H69	6215	RW	Parameter visibility	WORD		0 ... 0	0		Num	
325		H70	6216	RW	Parameter visibility	WORD		0 ... 0	0		Num	
326		H71	6217	RW	Parameter visibility	WORD		0 ... 0	0		Num	

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
327		H72	6218	RW	Parameter visibility	WORD		0 ... 0	0		Num	
328		H73	6219	RW	Parameter visibility	WORD		0 ... 0	0		Num	
329		H74	6220	RW	Parameter visibility	WORD		0 ... 0	0		Num	
330		H75	6221	RW	Parameter visibility	WORD		0 ... 0	0		Num	
331		H76	6222	RW	Parameter visibility	WORD		0 ... 0	0		Num	
332		H77	6223	RW	Parameter visibility	WORD		0 ... 0	0		Num	
333		H78	6224	RW	Parameter visibility	WORD		0 ... 0	0		Num	
334		H79	6225	RW	Parameter visibility	WORD		0 ... 0	0		Num	
335		H80	6226	RW	Parameter visibility	WORD		0 ... 0	0		Num	
336		A01	6227	RW	Parameter visibility	WORD		0 ... 0	0		Num	
337		A02	6228	RW	Parameter visibility	WORD		0 ... 0	0		Num	
338		A03	6229	RW	Parameter visibility	WORD		0 ... 0	0		Num	
339		A04	6230	RW	Parameter visibility	WORD		0 ... 0	0		Num	
340		A05	6231	RW	Parameter visibility	WORD		0 ... 0	0		Num	
341		A06	6232	RW	Parameter visibility	WORD		0 ... 0	0		Num	
342		A07	6233	RW	Parameter visibility	WORD		0 ... 0	0		Num	
343		A08	6234	RW	Parameter visibility	WORD		0 ... 0	0		Num	
344		A09	6235	RW	Parameter visibility	WORD		0 ... 0	0		Num	
345		A10	6236	RW	Parameter visibility	WORD		0 ... 0	0		Num	
346		A11	6237	RW	Parameter visibility	WORD		0 ... 0	0		Num	
347		A12	6238	RW	Parameter visibility	WORD		0 ... 0	0		Num	
348		A13	6239	RW	Parameter visibility	WORD		0 ... 0	0		Num	
349		A14	6240	RW	Parameter visibility	WORD		0 ... 0	0		Num	
350		A15	6241	RW	Parameter visibility	WORD		0 ... 0	0		Num	
351		A16	6242	RW	Parameter visibility	WORD		0 ... 0	0		Num	
352		A17	6243	RW	Parameter visibility	WORD		0 ... 0	0		Num	
353		A18	6244	RW	Parameter visibility	WORD		0 ... 0	0		Num	
354		A19	6245	RW	Parameter visibility	WORD		0 ... 0	0		Num	
355		A20	6246	RW	Parameter visibility	WORD		0 ... 0	0		Num	
356		A21	6247	RW	Parameter visibility	WORD		0 ... 0	0		Num	
357		A22	6248	RW	Parameter visibility	WORD		0 ... 0	0		Num	

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
358		A23	6249	RW	Parameter visibility	WORD		0 ... 0	0		Num	
359		A24	6250	RW	Parameter visibility	WORD		0 ... 0	0		Num	
360		A25	6251	RW	Parameter visibility	WORD		0 ... 0	0		Num	
361		A26	6252	RW	Parameter visibility	WORD		0 ... 0	0		Num	
362		A27	6253	RW	Parameter visibility	WORD		0 ... 0	0		Num	
363		A28	6254	RW	Parameter visibility	WORD		0 ... 0	0		Num	
364		A29	6255	RW	Parameter visibility	WORD		0 ... 0	0		Num	
365		A30	6256	RW	Parameter visibility	WORD		0 ... 0	0		Num	
366		A31	6257	RW	Parameter visibility	WORD		0 ... 0	0		Num	
367		A32	6258	RW	Parameter visibility	WORD		0 ... 0	0		Num	
368		C01	6259	RW	Parameter visibility	WORD		0 ... 0	0		Num	
369		C02	6260	RW	Parameter visibility	WORD		0 ... 0	0		Num	
370		C03	6261	RW	Parameter visibility	WORD		0 ... 0	0		Num	
371		C04	6262	RW	Parameter visibility	WORD		0 ... 0	0		Num	
372		C05	6263	RW	Parameter visibility	WORD		0 ... 0	0		Num	
373		b01	6264	RW	Parameter visibility	WORD		0 ... 0	0		Num	
374		b02	6265	RW	Parameter visibility	WORD		0 ... 0	0		Num	
375		b03	6266	RW	Parameter visibility	WORD		0 ... 0	0		Num	
376		b04	6267	RW	Parameter visibility	WORD		0 ... 0	0		Num	
377		b05	6268	RW	Parameter visibility	WORD		0 ... 0	0		Num	
378		b06	6269	RW	Parameter visibility	WORD		0 ... 0	0		Num	
379		b07	6270	RW	Parameter visibility	WORD		0 ... 0	0		Num	
380		b08	6271	RW	Parameter visibility	WORD		0 ... 0	0		Num	
381		F01	6272	RW	Parameter visibility	WORD		0 ... 0	0		Num	
382		F02	6273	RW	Parameter visibility	WORD		0 ... 0	0		Num	
383		F03	6274	RW	Parameter visibility	WORD		0 ... 0	0		Num	
384		F04	6275	RW	Parameter visibility	WORD		0 ... 0	0		Num	
385		F05	6276	RW	Parameter visibility	WORD		0 ... 0	0		Num	
386		F06	6277	RW	Parameter visibility	WORD		0 ... 0	0		Num	
387		F07	6278	RW	Parameter visibility	WORD		0 ... 0	0		Num	
388		F08	6279	RW	Parameter visibility	WORD		0 ... 0	0		Num	

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
389		F09	6280	RW	Parameter visibility	WORD		0 ... 0	0		Num	
390		F10	6281	RW	Parameter visibility	WORD		0 ... 0	0		Num	
391		F11	6282	RW	Parameter visibility	WORD		0 ... 0	0		Num	
392		F12	6283	RW	Parameter visibility	WORD		0 ... 0	0		Num	
393		F13	6284	RW	Parameter visibility	WORD		0 ... 0	0		Num	
394		F14	6285	RW	Parameter visibility	WORD		0 ... 0	0		Num	
395		F15	6286	RW	Parameter visibility	WORD		0 ... 0	0		Num	
396		F16	6287	RW	Parameter visibility	WORD		0 ... 0	0		Num	
397		F17	6288	RW	Parameter visibility	WORD		0 ... 0	0		Num	
398		F18	6289	RW	Parameter visibility	WORD		0 ... 0	0		Num	
399		F19	6290	RW	Parameter visibility	WORD		0 ... 0	0		Num	
400		F20	6291	RW	Parameter visibility	WORD		0 ... 0	0		Num	
401		F21	6292	RW	Parameter visibility	WORD		0 ... 0	0		Num	
402		F22	6293	RW	Parameter visibility	WORD		0 ... 0	0		Num	
403		F23	6294	RW	Parameter visibility	WORD		0 ... 0	0		Num	
404		F24	6295	RW	Parameter visibility	WORD		0 ... 0	0		Num	
405		P01	6296	RW	Parameter visibility	WORD		0 ... 0	0		Num	
406		P02	6297	RW	Parameter visibility	WORD		0 ... 0	0		Num	
407		P03	6298	RW	Parameter visibility	WORD		0 ... 0	0		Num	
408		P04	6299	RW	Parameter visibility	WORD		0 ... 0	0		Num	
409		r01	6300	RW	Parameter visibility	WORD		0 ... 0	0		Num	
410		r02	6301	RW	Parameter visibility	WORD		0 ... 0	0		Num	
411		r03	6302	RW	Parameter visibility	WORD		0 ... 0	0		Num	
412		r04	6303	RW	Parameter visibility	WORD		0 ... 0	0		Num	
413		r05	6304	RW	Parameter visibility	WORD		0 ... 0	0		Num	
414		r06	6305	RW	Parameter visibility	WORD		0 ... 0	0		Num	
415		r07	6306	RW	Parameter visibility	WORD		0 ... 0	0		Num	
416		r08	6307	RW	Parameter visibility	WORD		0 ... 0	0		Num	
417		r09	6308	RW	Parameter visibility	WORD		0 ... 0	0		Num	
418		r10	6309	RW	Parameter visibility	WORD		0 ... 0	0		Num	
419		r11	6310	RW	Parameter visibility	WORD		0 ... 0	0		Num	

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
420		r12	6311	RW	Parameter visibility	WORD		0 ... 0	0		Num	
421		r13	6312	RW	Parameter visibility	WORD		0 ... 0	0		Num	
422		r14	6313	RW	Parameter visibility	WORD		0 ... 0	0		Num	
423		r15	6314	RW	Parameter visibility	WORD		0 ... 0	0		Num	
424		r16	6315	RW	Parameter visibility	WORD		0 ... 0	0		Num	
425		r17	6316	RW	Parameter visibility	WORD		0 ... 0	0		Num	
426		r18	6317	RW	Parameter visibility	WORD		0 ... 0	0		Num	
427		r19	6318	RW	Parameter visibility	WORD		0 ... 0	0		Num	
428		d01	6319	RW	Parameter visibility	WORD		0 ... 0	0		Num	
429		d02	6320	RW	Parameter visibility	WORD		0 ... 0	0		Num	
430		d03	6321	RW	Parameter visibility	WORD		0 ... 0	0		Num	
431		d04	6322	RW	Parameter visibility	WORD		0 ... 0	0		Num	
432		d05	6323	RW	Parameter visibility	WORD		0 ... 0	0		Num	
433		d06	6324	RW	Parameter visibility	WORD		0 ... 0	0		Num	
434		d07	6325	RW	Parameter visibility	WORD		0 ... 0	0		Num	
435		d08	6326	RW	Parameter visibility	WORD		0 ... 0	0		Num	
436		d09	6327	RW	Parameter visibility	WORD		0 ... 0	0		Num	
437		d10	6328	RW	Parameter visibility	WORD		0 ... 0	0		Num	
438		d11	6329	RW	Parameter visibility	WORD		0 ... 0	0		Num	
439		d12	6330	RW	Parameter visibility	WORD		0 ... 0	0		Num	
440		d13	6331	RW	Parameter visibility	WORD		0 ... 0	0		Num	
441		d14	6332	RW	Parameter visibility	WORD		0 ... 0	0		Num	
442		N01	6333	RW	Parameter visibility	WORD		0 ... 0	0		Num	
443		N02	6334	RW	Parameter visibility	WORD		0 ... 0	0		Num	
444		N03	6335	RW	Parameter visibility	WORD		0 ... 0	0		Num	
445		N04	6336	RW	Parameter visibility	WORD		0 ... 0	0		Num	
446		N05	6337	RW	Parameter visibility	WORD		0 ... 0	0		Num	
447		N06	6338	RW	Parameter visibility	WORD		0 ... 0	0		Num	
448		N07	6339	RW	Parameter visibility	WORD		0 ... 0	0		Num	
449		N08	6340	RW	Parameter visibility	WORD		0 ... 0	0		Num	
450		N09	6341	RW	Parameter visibility	WORD		0 ... 0	0		Num	

Read: 1 WORD Write: 1 WORD											
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
451		N10	6342	RW	Parameter visibility	WORD		0 ... 0	0		Num
452		N11	6343	RW	Parameter visibility	WORD		0 ... 0	0		Num
453		N12	6344	RW	Parameter visibility	WORD		0 ... 0	0		Num
454		N13	6345	RW	Parameter visibility	WORD		0 ... 0	0		Num
455		N14	6346	RW	Parameter visibility	WORD		0 ... 0	0		Num
456		N15	6347	RW	Parameter visibility	WORD		0 ... 0	0		Num
457		L01	6348	RW	Parameter visibility	WORD		0 ... 0	0		Num
458		L02	6349	RW	Parameter visibility	WORD		0 ... 0	0		Num
459		L03	6350	RW	Parameter visibility	WORD		0 ... 0	0		Num
460		L04	6351	RW	Parameter visibility	WORD		0 ... 0	0		Num
461		L05	6352	RW	Parameter visibility	WORD		0 ... 0	0		Num
462		L06	6353	RW	Parameter visibility	WORD		0 ... 0	0		Num
463		L07	6354	RW	Parameter visibility	WORD		0 ... 0	0		Num
464		L08	6355	RW	Parameter visibility	WORD		0 ... 0	0		Num
465		L09	6356	RW	Parameter visibility	WORD		0 ... 0	0		Num
466		L10	6357	RW	Parameter visibility	WORD		0 ... 0	0		Num
467		L11	6358	RW	Parameter visibility	WORD		0 ... 0	0		Num
468		L12	6359	RW	Parameter visibility	WORD		0 ... 0	0		Num
469		L13	6360	RW	Parameter visibility	WORD		0 ... 0	0		Num
470		L14	6361	RW	Parameter visibility	WORD		0 ... 0	0		Num
471		L15	6362	RW	Parameter visibility	WORD		0 ... 0	0		Num
472		L16	6363	RW	Parameter visibility	WORD		0 ... 0	0		Num
473		L17	6364	RW	Parameter visibility	WORD		0 ... 0	0		Num
474		L18	6365	RW	Parameter visibility	WORD		0 ... 0	0		Num
475		L19	6366	RW	Parameter visibility	WORD		0 ... 0	0		Num
476		L20	6367	RW	Parameter visibility	WORD		0 ... 0	0		Num
477		L21	6368	RW	Parameter visibility	WORD		0 ... 0	0		Num
478		L22	6369	RW	Parameter visibility	WORD		0 ... 0	0		Num
479		L23	6370	RW	Parameter visibility	WORD		0 ... 0	0		Num
480		L24	6371	RW	Parameter visibility	WORD		0 ... 0	0		Num
481		L25	6372	RW	Parameter visibility	WORD		0 ... 0	0		Num

Read: 1 WORD Write: 1 WORD												
INDEX	FOLDER	LABEL	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.	
482		L26	6373	RW	Parameter visibility	WORD		0 ... 0	0		Num	
483		SEt	6374	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
484		tp	6375	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
485		Err	6376	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
486		id	6377	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
487		PAr	6378	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
488		PSS	6379	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
489		OHr	6380	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
490		Coo	6381	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
491		HEA	6382	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
492		CnF	6383	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
493		ALL	6384	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
494		CP	6385	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
495		rE	6386	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
496		FAn	6387	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
497		PUP	6388	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
498		Fro	6389	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
499		dFr	6390	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
500		ESP	6391	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
501		FrC	6392	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
502		OH1	6393	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
503		OH2	6394	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
504		OH3	6395	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
505		OH4	6396	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	
506		OHF	6397	RW	<i>Label</i> visibility	WORD		0 ... 0	0		Num	

### 2.5.3 Client Table

Read: 12 WORD Write: 11 WORD										
INDEX	FOLDER	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
1		<b>4097</b>	R	Analogue input 1	WORD	Y	-670 ... 3020	0	-1	°C/°F
2		<b>4098</b>	R	Analogue input 2	WORD	Y	-670 ... 3020	0	-1	°C/°F
3		<b>4099</b>	R	Analogue input 3	WORD	Y	-670 ... 3020	0	-1	°C/°F
4		<b>4100</b>	R	Analogue input 4	WORD	Y	-670 ... 3020	0	-1	°C/°F
5		<b>4101</b>	R	Analogue input 5	WORD	Y	-670 ... 3020	0	-1	°C/°F
6		<b>4102</b>	R	Analogue input 6	WORD	Y	-670 ... 3020	0	-1	°C/°F
7		<b>4103</b>	R	Analogue input 7	WORD	Y	-670 ... 3020	0	-1	°C/°F
8		<b>4104</b>	R	Analogue input 8	WORD	Y	-670 ... 3020	0	-1	°C/°F
9		<b>16499,13</b>	R	Status of digital input nr 1	1 bit		0 ... 1	0		num
10		<b>16499,12</b>	R	Status of digital input nr 2	1 bit		0 ... 1	0		num
11		<b>16499,11</b>	R	Status of digital input nr 3	1 bit		0 ... 1	0		num
12		<b>16499,1</b>	R	Status of digital input nr 4	1 bit		0 ... 1	0		num
13		<b>16499,2</b>	R	Status of digital input nr 5	1 bit		0 ... 1	0		num
14		<b>16499,0</b>	R	Status of digital input nr 6	1 bit		0 ... 1	0		num
15		<b>16499,3</b>	R	Status of digital input nr 7	1 bit		0 ... 1	0		num
16		<b>16499,6</b>	R	Status of digital input nr 8	1 bit		0 ... 1	0		num
17		<b>16499,7</b>	R	Status of digital input nr 9	1 bit		0 ... 1	0		num
18		<b>16499,5</b>	R	Status of digital input nr 10	1 bit		0 ... 1	0		num
19		<b>16499,8</b>	R	Status of digital input nr 11	1 bit		0 ... 1	0		num
20		<b>16499,4</b>	R	Status of digital input nr 12	1 bit		0 ... 1	0		num
21		<b>16499,9</b>	R	Status of digital input nr 13	1 bit		0 ... 1	0		num
22		<b>16499,14</b>	R	Status of digital input nr 14	1 bit		0 ... 1	0		num
23		<b>16499,15</b>	R	Status of digital input nr 15	1 bit		0 ... 1	0		num
24		<b>16497,0</b>	R	Status of digital input nr 16	1 bit		0 ... 1	0		num
25		<b>16497,1</b>	R	Status of digital input nr 17	1 bit		0 ... 1	0		num
26		<b>16497,2</b>	R	Status of digital input nr 18	1 bit		0 ... 1	0		num
27		<b>16497,3</b>	R	Status of digital input nr 19	1 bit		0 ... 1	0		num
28		<b>16497,4</b>	R	Status of digital input nr 20	1 bit		0 ... 1	0		num
29		<b>16497,5</b>	R	Status of digital input nr 21	1 bit		0 ... 1	0		num

Read: 12 WORD Write: 11 WORD										
INDEX	FOLDER	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
30		<b>14337</b>	R	Analogue output 1	WORD		0 ... 255	0		num
31		<b>14338</b>	R	Analogue output 2	WORD		0 ... 255	0		num
32		<b>14339</b>	R	Analogue output 3	WORD		0 ... 255	0		num
33		<b>16891,1</b>	R	Relay 1	1 bit		0 ... 1	0		num
34		<b>16891,2</b>	R	Relay 2	1 bit		0 ... 1	0		num
35		<b>16891,3</b>	R	Relay 3	1 bit		0 ... 1	0		num
36		<b>16891,4</b>	R	Relay 4	1 bit		0 ... 1	0		num
37		<b>16891,5</b>	R	Relay 5	1 bit		0 ... 1	0		num
38		<b>16891,6</b>	R	Relay 6	1 bit		0 ... 1	0		num
39		<b>16891,7</b>	R	Relay 7	1 bit		0 ... 1	0		num
40		<b>16891,0</b>	R	Relay 8	1 bit		0 ... 1	0		num
41		<b>16891,15</b>	R	Relay 9	1 bit		0 ... 1	0		num
42		<b>16891,14</b>	R	Relay 10	1 bit		0 ... 1	0		num
43		<b>16891,12</b>	R	Relay 11	1 bit		0 ... 1	0		num
44		<b>16891,13</b>	R	Relay 12	1 bit		0 ... 1	0		num
45		<b>16891,11</b>	R	Relay 13	1 bit		0 ... 1	0		num
46		<b>16525,8</b>	RW	COOL	1 bit		0 ... 1	0		num
47		<b>16525,9</b>	RW	HEAT	1 bit		0 ... 1	0		num
48		<b>16525,15</b>	RW	ONOFF	1 bit		0 ... 1	0		num
49		<b>17298,10</b>	R	Keyboard change-over enabled	1 bit		0 ... 1	0		num
50		<b>17302,13</b>	R	Digital control of temperature controller	1 bit		0 ... 1	0		num
51		<b>17302,15</b>	R	Enable autotest	1 bit		0 ... 1	0		num
52		<b>17304,8</b>	R	Night purging function enabled	1 bit		0 ... 1	0		num
53		<b>17304,9</b>	R	Night purging function on	1 bit		0 ... 1	0		num
54		<b>17304,10</b>	R	EKF keyboard present	1 bit		0 ... 1	0		num
55		<b>17304,11</b>	R	EKW/EKP keyboard present	1 bit		0 ... 1	0		num
56		<b>16527</b>	R	Operating hours Compressor 1	WORD		0 ... 65535	0		num
57		<b>16529</b>	R	Operating hours Compressor 2	WORD		0 ... 65535	0		num
58		<b>16531</b>	R	Operating hours Compressor 3	WORD		0 ... 65535	0		num
59		<b>16533</b>	R	Operating hours Compressor 4	WORD		0 ... 65535	0		num
60		<b>16535</b>	R	Operating hours Pump	WORD		0 ... 65535	0		num

Read: 12 WORD Write: 11 WORD										
INDEX	FOLDER	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
61		<b>17089,8</b>	R	Remote ON-OFF digital input	1 bit		0 ... 1	0		num
62		<b>17089,9</b>	R	High pressure alarm input circuit 1	1 bit		0 ... 1	0		num
63		<b>17089,10</b>	R	Low pressure alarm input circuit 1	1 bit		0 ... 1	0		num
64		<b>17089,11</b>	R	Thermal switch alarm input compressor 1	1 bit		0 ... 1	0		num
65		<b>17089,12</b>	R	Thermal switch alarm input fan 1	1 bit		0 ... 1	0		num
66		<b>17089,13</b>	R	Internal anti-freeze alarm threshold exceeded	1 bit		0 ... 1	0		num
67		<b>17089,14</b>	R	Analogue input 2 faulty	1 bit		0 ... 1	0		num
68		<b>17089,15</b>	R	Analogue input 3 faulty	1 bit		0 ... 1	0		num
69		<b>17089,0</b>	R	Thermal switch alarm input compressor 2	1 bit		0 ... 1	0		num
70		<b>17089,1</b>	R	High pressure alarm input circuit 2	1 bit		0 ... 1	0		num
71		<b>17089,2</b>	R	Low pressure alarm input circuit 2	1 bit		0 ... 1	0		num
72		<b>17089,3</b>	R	Thermal switch alarm input compressor 3	1 bit		0 ... 1	0		num
73		<b>17089,4</b>	R	Thermal switch alarm input fan 2	1 bit		0 ... 1	0		num
74		<b>17089,5</b>	R	Analogue input 5 faulty	1 bit		0 ... 1	0		num
75		<b>17089,6</b>	R	Analogue input 6 faulty	1 bit		0 ... 1	0		num
76		<b>17089,7</b>	R	Thermal switch alarm input compressor 4	1 bit		0 ... 1	0		num
77		<b>17091,8</b>	R	Analogue input 1 faulty	1 bit		0 ... 1	0		num
78		<b>17091,9</b>	R	Flow switch alarm input	1 bit		0 ... 1	0		num
79		<b>17091,10</b>	R	Analogue input 4 faulty	1 bit		0 ... 1	0		num
80		<b>17091,11</b>	R	Error on digital inputs change-over	1 bit		0 ... 1	0		num
81		<b>17091,12</b>	R	Water temperature too hot	1 bit		0 ... 1	0		num
82		<b>17091,13</b>	R	Analogue input 7 faulty	1 bit		0 ... 1	0		num
83		<b>17091,14</b>	R	Analogue input 8 faulty	1 bit		0 ... 1	0		num
84		<b>17091,15</b>	R	Evaporator fan thermal switch disabled alarm	1 bit		0 ... 1	0		num
85		<b>17091,0</b>	R	Worn filters	1 bit		0 ... 1	0		num
86		<b>17091,1</b>	R	Dirty filters	1 bit		0 ... 1	0		num
87		<b>17091,2</b>	R	Thermal switch R12 tripped	1 bit		0 ... 1	0		num
88		<b>17091,3</b>	R	Thermal switch R34 tripped	1 bit		0 ... 1	0		num
89		<b>17091,4</b>	R	Humidifier alarm	1 bit		0 ... 1	0		num
90		<b>17091,5</b>	R	Fire alarm	1 bit		0 ... 1	0		num
91		<b>17091,6</b>	R	Evaporator thermal switch alarm	1 bit		0 ... 1	0		num

Read: 12 WORD Write: 11 WORD										
INDEX	FOLDER	ADDRESS	R/W	DESCRIPTION	DATA SIZE	CPL	RANGE	DEFAULT	EXP	M.U.
92		<b>17093,8</b>	R	Remote ON-OFF digital input (manual reset)	1 bit		0 ... 1	0		num
93		<b>17093,9</b>	R	High pressure alarm input circuit 1 (manual reset)	1 bit		0 ... 1	0		num
94		<b>17093,10</b>	R	Low pressure alarm input circuit 1 (manual reset)	1 bit		0 ... 1	0		num
95		<b>17093,11</b>	R	Thermal switch alarm input compressor 1 (manual reset)	1 bit		0 ... 1	0		num
96		<b>17093,12</b>	R	Thermal switch alarm input fan 1 (manual reset)	1 bit		0 ... 1	0		num
97		<b>17093,13</b>	R	Internal anti-freeze alarm threshold exceeded (manual reset)	1 bit		0 ... 1	0		num
98		<b>17093,14</b>	R	Analogue input 2 faulty (manual reset)	1 bit		0 ... 1	0		num
99		<b>17093,15</b>	R	Analogue input 3 faulty (manual reset)	1 bit		0 ... 1	0		num
100		<b>17093,0</b>	R	Thermal switch alarm input compressor 2 (manual reset)	1 bit		0 ... 1	0		num
101		<b>17093,1</b>	R	High pressure alarm input circuit 2 (manual reset)	1 bit		0 ... 1	0		num
102		<b>17093,2</b>	R	Low pressure alarm input circuit 2 (manual reset)	1 bit		0 ... 1	0		num
103		<b>17093,3</b>	R	Thermal switch alarm input compressor 3 (manual reset)	1 bit		0 ... 1	0		num
104		<b>17093,4</b>	R	Thermal switch alarm input fan 2 (manual reset)	1 bit		0 ... 1	0		num
105		<b>17093,5</b>	R	Analogue input 5 faulty (manual reset)	1 bit		0 ... 1	0		num
106		<b>17093,6</b>	R	Analogue input 6 faulty (manual reset)	1 bit		0 ... 1	0		num
107		<b>17093,7</b>	R	Thermal switch alarm input compressor 4 (manual reset)	1 bit		0 ... 1	0		num
108		<b>17095,8</b>	R	Analogue input 1 faulty (manual reset)	1 bit		0 ... 1	0		num
109		<b>17095,9</b>	R	Flow switch alarm input (manual reset)	1 bit		0 ... 1	0		num
110		<b>17095,10</b>	R	Analogue input 4 faulty (manual reset)	1 bit		0 ... 1	0		num
111		<b>17095,11</b>	R	Error on digital inputs change-over (manual reset)	1 bit		0 ... 1	0		num
112		<b>17095,12</b>	R	Water temperature too hot (manual reset)	1 bit		0 ... 1	0		num
113		<b>17095,13</b>	R	Analogue input 7 faulty (manual reset)	1 bit		0 ... 1	0		num
114		<b>17095,14</b>	R	Analogue input 8 faulty (manual reset)	1 bit		0 ... 1	0		num
115		<b>17095,15</b>	R	Evaporator fan thermal switch disabled alarm (manual reset)	1 bit		0 ... 1	0		num
116		<b>17095,0</b>	R	Worn filters (manual reset)	1 bit		0 ... 1	0		num
117		<b>17095,1</b>	R	Dirty filters (manual reset)	1 bit		0 ... 1	0		num
118		<b>17095,2</b>	R	Thermal switch R12 tripped (manual reset)	1 bit		0 ... 1	0		num
119		<b>17095,3</b>	R	Thermal switch R34 tripped (manual reset)	1 bit		0 ... 1	0		num
120		<b>17095,4</b>	R	Humidifier alarm (manual reset)	1 bit		0 ... 1	0		num
121		<b>17095,5</b>	R	Fire alarm (manual reset)	1 bit		0 ... 1	0		num
122		<b>17095,6</b>	R	Evaporator fan thermal switch alarm (manual reset)	1 bit		0 ... 1	0		num



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