komfovent[®]

Modbus connection C5



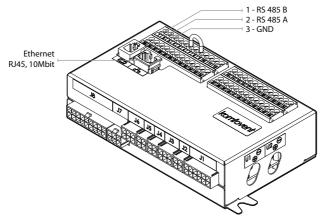
C5 controller supports Modbus RTU and Modbus TCP/IP protocols

Modbus RTU protocol works via RS485 interface, connection is provided to terminals 1,2,3 of the C5 controller (Pic. 1). Default interface settings and ID are as follows:

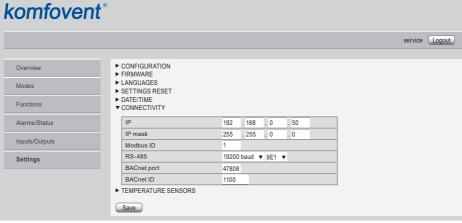
Baudrate	19200
Word length	8
Parity	EVEN
Stop bits	1
Modbus ID	1

These settings can be changed using laptop connected to webserver (Pic. 2). To connect devices use twisted pair cable. Maximum cable length is 150m. Connect GND cables together, if distance between the RS485 interfaces is more than 10m.

Modbus TCP protocol uses Ethernet interface, connection is provided to RJ-45 socket (Pic.1) on the C5 controller (CAT5 cable is recommended). The maximum cable length between device and C5 controller board must not exceed 100m. Default IP address is 192.168.0.50, port 502. The IP address can be changed using laptop connected to webserver (Pic. 2) or control panel (Pic. 3).

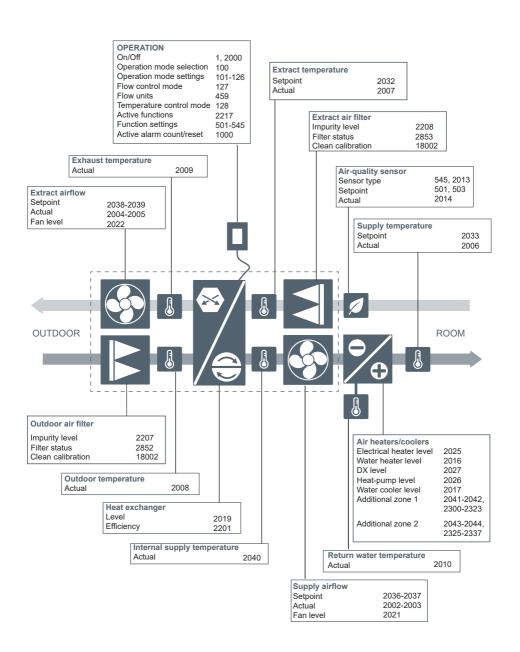


Picture 1. C5 controller board



Picture 2. Connectivity settings

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Following tables lists available Modbus registers

	MODES									
Modbus			Data		Description	Data values				
register	Type	Access	Range	Default	·					
1	int	R/W	0-1	0	AHU On/Off control	0-Off, 1-On				
100	int	R/W	1-6	1	Operation mode selection	1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program				
101-102	int32	R/W	-	-	Comfort1: Supply flow	Auto-correction to be within allowed range (20-100% of maximum supply flow or 0)				
103-104	int32	R/W	-	-	Comfort1: Extract flow	Auto-correction to be within allowed range (20-100% of maximum extract flow or 0)				
105	int	R/W	50-400	210	Comfort1: Setpoint temperature	200 => 20,0C				
106-107	int32	R/W	-	-	Comfort2: Supply flow	Auto-correction to be within allowed range (20-100% of maximum supply flow or 0)				
108-109	int32	R/W	-	-	Comfort2: Extract flow	Auto-correction to be within allowed range (20-100% of maximum extract flow or 0)				
110	int	R/W	50-400	210	Comfort2: Setpoint temperature	200 => 20,0C				
111-112	int32	R/W	-	-	Economy1: Supply flow	Auto-correction to be within allowed range (20-100% of maximum supply flow or 0)				
113-114	int32	R/W	-	-	Economy1: Extract flow	Auto-correction to be within allowed range (20-100% of maximum extract flow or 0)				
115	int	R/W	50-400	200	Economy1: Setpoint temperature	200 => 20,0C				
116-117	int32	R/W	-	-	Economy2: Supply flow	Auto-correction to be within allowed range (20-100% of maximum supply flow or 0)				
118-119	int32	R/W	-	-	Economy2: Extract flow	Auto-correction to be within allowed range (20-100% of maximum extract flow or 0)				
120	int	R/W	50-400	190	Economy2: Setpoint temperature	200 => 20,0C				
121-122	int32	R/W	-	-	Special: Supply flow	Auto-correction to be within allowed range (20-100% of maximum supply flow or 0)				
123-124	int32	R/W	-	-	Special: Extract flow	Auto-correction to be within allowed range (20-100% of maximum extract flow or 0)				
125	int	R/W	50-400	210	Special: Setpoint temperature	200 => 20,0C				
126	bin	R/W	-	31	Special: Configuration	b4-Dehumidifying, b3-Humidifying, b2-Recirculation, b1- Cooling, b0-Heating (1-Enable, 0-Disable)				
127	int	R/W	0-1	0	Flow control mode	0-CAV, 1-VAV, 2 - DCV				
128	int	R/W	0-2	0	Temp. control mode	0-Supply, 1-Extract, 2-Room				
129	int	R/W	0-4	0	VAV status/calibration	0-Not calibrated, 1-Calibrating, 2-Supply, 3-Extract, 4-Double. Write 0x99C5 to start VAV calibration				
130	int	R/W	100-5000	500	VAV sensors range	500 => 500Pa				
131	int	R/W	0-4500	0	Nominal supply pressure	Auto-correction to be within allowed range (0-90% of VAV sensors range)				
132	int	R/W	0-4500	0	Nominal exhaust pressure	Auto-correction to be within allowed range (0-90% of VAV sensors range)				



	OPERATION PROGRAM								
Modbus register	T		Data	D-flt	Description	Data values			
200	Type bin	Access R/W	Range -	Default 0	Event01: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)			
201	int8x2	R/W	0:00-23:59	0:00	Event01: Start time	0x0805 => 8:05			
202	int8x2	R/W	0:00-24:00	0:00	Event01: Stop time	0x0805 => 8:05			
203	int	R/W	0-5	0	Event01: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special			
204	bin	R/W	-	0	Event02: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)			
205	int8x2	R/W	0:00-23:59	0:00	Event02: Start time	0x0805 => 8:05			
206	int8x2	R/W	0:00-24:00	0:00	Event02: Stop time	0x0805 => 8:05			
207	int	R/W	0-5	0	Event02: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special			
208	bin	R/W	-	0	Event03: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)			
209	int8x2	R/W	0:00-23:59	0:00	Event03: Start time	0x0805 => 8:05			
210	int8x2	R/W	0:00-24:00	0:00	Event03: Stop time	0x0805 => 8:05			
211	int	R/W	0-5	0	Event03: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special			
212	bin	R/W	=	0	Event04: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)			
213	int8x2	R/W	0:00-23:59	0:00	Event04: Start time	0x0805 => 8:05			
214	int8x2	R/W	0:00-24:00	0:00	Event04: Stop time	0x0805 => 8:05			
215	int	R/W	0-5	0	Event04: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special			
216	bin	R/W	-	0	Event05: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)			
217	int8x2	R/W	0:00-23:59	0:00	Event05: Start time	0x0805 => 8:05			
218	int8x2	R/W	0:00-24:00	0:00	Event05: Stop time	0x0805 => 8:05			
219	int	R/W	0-5	0	Event05: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special			
220	bin	R/W	-	0	Event06: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)			
221	int8x2	R/W	0:00-23:59	0:00	Event06: Start time	0x0805 => 8:05			
222	int8x2	R/W	0:00-24:00	0:00	Event06: Stop time	0x0805 => 8:05			
223	int	R/W	0-5	0	Event06: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special			
224	bin	R/W	-	0	Event07: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)			
225	int8x2	R/W	0:00-23:59	0:00	Event07: Start time	0x0805 => 8:05			
226	int8x2	R/W	0:00-24:00	0:00	Event07: Stop time	0x0805 => 8:05			



OPERATION PROGRAM								
Modbus			Data		Description	Data values		
register	Туре	Access	Range	Default		233232		
227	int	R/W	0-5	0	Event07: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special		
228	bin	R/W	-	0	Event08: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)		
229	int8x2	R/W	0:00-23:59	0:00	Event08: Start time	0x0805 => 8:05		
230	int8x2	R/W	0:00-24:00	0:00	Event08: Stop time	0x0805 => 8:05		
231	int	R/W	0-5	0	Event08: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special		
232	bin	R/W	-	0	Event09: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)		
233	int8x2	R/W	0:00-23:59	0:00	Event09: Start time	0x0805 => 8:05		
234	int8x2	R/W	0:00-24:00	0:00	Event09: Stop time	0x0805 => 8:05		
235	int	R/W	0-5	0	Event09: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special		
236	bin	R/W	-	0	Event10: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)		
237	int8x2	R/W	0:00-23:59	0:00	Event10: Start time	0x0805 => 8:05		
238	int8x2	R/W	0:00-24:00	0:00	Event10: Stop time	0x0805 => 8:05		
239	int	R/W	0-5	0	Event10: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special		
240	bin	R/W	-	0	Event11: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)		
241	int8x2	R/W	0:00-23:59	0:00	Event11: Start time	0x0805 => 8:05		
242	int8x2	R/W	0:00-24:00	0:00	Event11: Stop time	0x0805 => 8:05		
243	int	R/W	0-5	0	Event11: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special		
244	bin	R/W	-	0	Event12: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)		
245	int8x2	R/W	0:00-23:59	0:00	Event12: Start time	0x0805 => 8:05		
246	int8x2	R/W	0:00-24:00	0:00	Event12: Stop time	0x0805 => 8:05		
247	int	R/W	0-5	0	Event12: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special		
248	bin	R/W	-	0	Event13: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)		
249	int8x2	R/W	0:00-23:59	0:00	Event13: Start time	0x0805 => 8:05		
250	int8x2	R/W	0:00-24:00	0:00	Event13: Stop time	0x0805 => 8:05		
251	int	R/W	0-5	0	Event13: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special		
252	bin	R/W	-	0	Event14: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)		
253	int8x2	R/W	0:00-23:59	0:00	Event14: Start time	0x0805 => 8:05		



				ОР	ERATION PROGRAM	
Modbus register	T		Data	D-flt	Description	Data values
	Туре	Access	Range	Default		
254	int8x2	R/W	0:00-24:00	0:00	Event14: Stop time	0x0805 => 8:05
255	int	R/W	0-5	0	Event14: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special
256	bin	R/W	-	0	Event15: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)
257	int8x2	R/W	0:00-23:59	0:00	Event15: Start time	0x0805 => 8:05
258	int8x2	R/W	0:00-24:00	0:00	Event15: Stop time	0x0805 => 8:05
259	int	R/W	0-5	0	Event15: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special
260	bin	R/W	-	0	Event16: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)
261	int8x2	R/W	0:00-23:59	0:00	Event16: Start time	0x0805 => 8:05
262	int8x2	R/W	0:00-24:00	0:00	Event16: Stop time	0x0805 => 8:05
263	int	R/W	0-5	0	Event16: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special
264	bin	R/W	=	0	Event17: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)
265	int8x2	R/W	0:00-23:59	0:00	Event17: Start time	0x0805 => 8:05
266	int8x2	R/W	0:00-24:00	0:00	Event17: Stop time	0x0805 => 8:05
267	int	R/W	0-5	0	Event17: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special
268	bin	R/W	-	0	Event18: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)
269	int8x2	R/W	0:00-23:59	0:00	Event18: Start time	0x0805 => 8:05
270	int8x2	R/W	0:00-24:00	0:00	Event18: Stop time	0x0805 => 8:05
271	int	R/W	0-5	0	Event18: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special
272	bin	R/W	-	0	Event19: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)
273	int8x2	R/W	0:00-23:59	0:00	Event19: Start time	0x0805 => 8:05
274	int8x2	R/W	0:00-24:00	0:00	Event19: Stop time	0x0805 => 8:05
275	int	R/W	0-5	0	Event19: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special
276	bin	R/W	-	0	Event20: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)
277	int8x2	R/W	0:00-23:59	0:00	Event20: Start time	0x0805 => 8:05
278	int8x2	R/W	0:00-24:00	0:00	Event20: Stop time	0x0805 => 8:05
279	int	R/W	0-5	0	Event20: Mode	0-Standby,1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special



	HOLLYDAY SCHEDULE								
Modbus register			Data		Description	Data values			
	Туре	Access	Range	Default					
300	int	R/W	2010-2250		Event01: Start year				
301	int8x2	R/W	01.01-12.31		Event01: Start date	0x020C => Feb12			
302	int	R/W	2010-2250		Event01: Stop year				
303	int8x2	R/W	01.01-12.31		Event01: Stop date	0x020C => Feb12			
304	int	R/W	0-6		Event01: Mode	0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program			
305	int	R/W	2010-2250		Event02: Start year				
306	int8x2	R/W	01.01-12.31		Event02: Start date	0x020C => Feb12			
307	int	R/W	2010-2250		Event02: Stop year				
308	int8x2	R/W	01.01-12.31		Event02: Stop date	0x020C => Feb12			
309	int	R/W	0-6		Event02: Mode	0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program			
310	int	R/W	2010-2250		Event03: Start year				
311	int8x2	R/W	01.01-12.31		Event03: Start date	0x020C => Feb12			
312	int	R/W	2010-2250		Event03: Stop year				
313	int8x2	R/W	01.01-12.31		Event03: Stop date	0x020C => Feb12			
314	int	R/W	0-6		Event03: Mode	0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program			
315	int	R/W	2010-2250		Event04: Start year				
316	int8x2	R/W	01.01-12.31		Event04: Start date	0x020C => Feb12			
317	int	R/W	2010-2250		Event04: Stop year				
318	int8x2	R/W	01.01-12.31		Event04: Stop date	0x020C => Feb12			
319	int	R/W	0-6		Event04: Mode	0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program			
320	int	R/W	2010-2250		Event05: Start year				
321	int8x2	R/W	01.01-12.31		Event05: Start date	0x020C => Feb12			
322	int	R/W	2010-2250		Event05: Stop year				
323	int8x2	R/W	01.01-12.31		Event05: Stop date	0x020C => Feb12			
324	int	R/W	0-6		Event05: Mode	0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program			
325	int	R/W	2010-2250		Event06: Start year				
326	int8x2	R/W	01.01-12.31		Event06: Start date	0x020C => Feb12			



Modebut register Type Access Range Default 327 Int R/W 2010-2250 Event06: Stop year 328 Int8x2 R/W 01.01-12.31 Event06: Stop date 0x20x0C=>Feb12 329 Int R/W 0.04 Event06: Mode 0.5tandby, 1-Confort1, 2-Confort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program 330 Int R/W 2010-2250 Event07: Stort year 0x020C=>Feb12 331 Int8x2 R/W 01.01-12.31 Event07: Stort year 0x020C=>Feb12 333 Int8x2 R/W 01.01-12.31 Event07: Stop year 0x020C=>Feb12 334 Int R/W 01.01-12.31 Event07: Stop date 0x020C=>Feb12 335 Int R/W 01.01-12.31 Event08: Stort year 0x020C=>Feb12 336 Int8x2 R/W 01.01-12.31 Event08: Stop year 0x020C=>Feb12 337 Int R/W 01.01-12.31 Event08: Stop year 0x020C=>Feb12 338 Int8x2 R/W	HOLLYDAY SCHEDULE								
Type Access Range Default				Data		Description	Data values		
1	register	Type	Access	Range	Default				
329	327	int	R/W	2010-2250		Event06: Stop year			
330	328	int8x2	R/W	01.01-12.31		Event06: Stop date	0x020C => Feb12		
331 int8x2 R/W 01.01-12.31 Event07: Start date 0x020C => Feb12	329	int	R/W	0-6		Event06: Mode			
332 int R/W 2010-2250 Event07: Stop year	330	int	R/W	2010-2250		Event07: Start year			
333 int8x2 R/W 01.01-12.31 Event07: Stop date 0x020C => Feb12	331	int8x2	R/W	01.01-12.31		Event07: Start date	0x020C => Feb12		
334	332	int	R/W	2010-2250		Event07: Stop year			
11	333	int8x2	R/W	01.01-12.31		Event07: Stop date	0x020C => Feb12		
336	334	int	R/W	0-6		Event07: Mode			
337 int R/W 2010-2250 Event08: Stop year	335	int	R/W	2010-2250		Event08: Start year			
338 int8x2 R/W 01.01-12.31 Event08: Stop date 0x020C => Feb12	336	int8x2	R/W	01.01-12.31		Event08: Start date	0x020C => Feb12		
339 int R/W 0-6 Event08: Mode 0-Standby, 1-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program 340 int R/W 2010-2250 Event09: Start year 341 int8x2 R/W 01.01-12.31 Event09: Start date 0x020C => Feb12 342 int R/W 2010-2250 Event09: Stop year 343 int8x2 R/W 01.01-12.31 Event09: Stop date 0x020C => Feb12 344 int R/W 0-6 Event09: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program 345 int R/W 2010-2250 Event10: Start year 346 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12 347 int R/W 2010-2250 Event10: Start date 0x020C => Feb12 348 int8x2 R/W 01.01-12.31 Event10: Stop year 349 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12	337	int	R/W	2010-2250		Event08: Stop year			
340 int R/W 2010-2250 Event09: Start year 341 int8x2 R/W 01.01-12.31 Event09: Start date 0x020C => Feb12 342 int R/W 2010-2250 Event09: Stop year 343 int8x2 R/W 01.01-12.31 Event09: Stop date 0x020C => Feb12 344 int R/W 0-6 Event09: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program 345 int R/W 2010-2250 Event10: Start year 346 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12 347 int R/W 2010-2250 Event10: Start date 0x020C => Feb12 348 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12	338	int8x2	R/W	01.01-12.31		Event08: Stop date	0x020C => Feb12		
341 int8x2 R/W 01.01-12.31 Event09: Start date 0x020C => Feb12 342 int R/W 2010-2250 Event09: Stop year 343 int8x2 R/W 01.01-12.31 Event09: Stop date 0x020C => Feb12 344 int R/W 0-6 Event09: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program 345 int R/W 2010-2250 Event10: Start year 346 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12 347 int R/W 2010-2250 Event10: Start date 0x020C => Feb12 348 int8x2 R/W 01.01-12.31 Event10: Stop year 349 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12	339	int	R/W	0-6		Event08: Mode			
342 int R/W 2010-2250 Event09: Stop year 343 int8x2 R/W 01.01-12.31 Event09: Stop date 0x020C => Feb12 344 int R/W 0-6 Event09: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program 345 int R/W 2010-2250 Event10: Start year 346 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12 347 int R/W 2010-2250 Event10: Stop year 348 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12 349 int R/W 0.6 Event10: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1,	340	int	R/W	2010-2250		Event09: Start year			
343 int8x2 R/W 01.01-12.31 Event09: Stop date 0x020C => Feb12 344 int R/W 0-6 Event09: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program 345 int R/W 2010-2250 Event10: Start year 346 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12 347 int R/W 2010-2250 Event10: Stop year 348 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12 349 int R/W 0.66 Event10: Stop date 0x020C => Feb12	341	int8x2	R/W	01.01-12.31		Event09: Start date	0x020C => Feb12		
344 int R/W 0-6 Event09: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program 345 int R/W 2010-2250 Event10: Start year 346 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12 347 int R/W 2010-2250 Event10: Stop year 348 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12 349 int R/W 0.6 Event10: Stop date 0x020C => Feb12	342	int	R/W	2010-2250		Event09: Stop year			
345 int R/W 2010-2250 Event10: Start year 346 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12 347 int R/W 2010-2250 Event10: Stop year 348 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12 349 int R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12	343	int8x2	R/W	01.01-12.31		Event09: Stop date	0x020C => Feb12		
346 int8x2 R/W 01.01-12.31 Event10: Start date 0x020C => Feb12 347 int R/W 2010-2250 Event10: Stop year 348 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12 349 int R/W 0.6 Event10: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1,	344	int	R/W	0-6		Event09: Mode			
347 int R/W 2010-2250 Event10: Stop year 348 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12 349 int R/W 0.6 Event10: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1,	345	int	R/W	2010-2250		Event10: Start year			
348 int8x2 R/W 01.01-12.31 Event10: Stop date 0x020C => Feb12 349 int R/W 0.6 Event10: Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1,	346	int8x2	R/W	01.01-12.31		Event10: Start date	0x020C => Feb12		
340 int B/W 0.6 Eventil-Mode 0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1,	347	int	R/W	2010-2250		Event10: Stop year			
	348	int8x2	R/W	01.01-12.31		Event10: Stop date	0x020C => Feb12		
	349	int	R/W	0-6		Event10: Mode			

	RECIRCULATION SCHEDULLE									
Modbus			Data		D	Data values				
register	Type	Access	Range	Default	Description	Data values				
400	bin	R/W	-	0	Event01: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)				
401	int8x2	R/W	0:00-23:59	0:00	Event01: Start time	0x0805 => 8:05				



	RECIRCULATION SCHEDULLE									
Modbus			Data		Description	Data values				
register	Туре	Access	Range	Default	Description	Data values				
402	int8x2	R/W	0:00-24:00	0:00	Event01: Stop time	0x0805 => 8:05				
403	int	R/W	0100	0	Event01: Level					
404	bin	R/W	-	0	Event02: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)				
405	int8x2	R/W	0:00-23:59	0:00	Event02: Start time	0x0805 => 8:05				
406	int8x2	R/W	0:00-24:00	0:00	Event02: Stop time	0x0805 => 8:05				
407	int	R/W	0100	0	Event02: Level					
408	bin	R/W	-	0	Event03: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)				
409	int8x2	R/W	0:00-23:59	0:00	Event03: Start time	0x0805 => 8:05				
410	int8x2	R/W	0:00-24:00	0:00	Event03: Stop time	0x0805 => 8:05				
411	int	R/W	0100	0	Event03: Level					
412	bin	R/W	-	0	Event04: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)				
413	int8x2	R/W	0:00-23:59	0:00	Event04: Start time	0x0805 => 8:05				
414	int8x2	R/W	0:00-24:00	0:00	Event04: Stop time	0x0805 => 8:05				
415	int	R/W	0100	0	Event04: Level					
416	bin	R/W	-	0	Event05: Days	b6-Sun, b5-Sat, b4-Fri, b3-Thu, b2-Wed, b1-Tue, b0-Mon (1-Select, 0-Deselect)				
417	int8x2	R/W	0:00-23:59	0:00	Event05: Start time	0x0805 => 8:05				
418	int8x2	R/W	0:00-24:00	0:00	Event05: Stop time	0x0805 => 8:05				
419	int	R/W	0100	0	Event05: Level					

	SETTINGS										
Modbus	Data				Description	Data values					
register	Type	Access	Range	Default	Description	Data values					
450	int8x2	R/W	0:00-23:59	0:00	Time	0x0805 => 8:05					
451	int	R/W	0-59	0	Seconds						
452	int	R	1-7	7	Day of week	1-Mon, 2-Tue, 3-Wed, 4-Thu, 5-Fri, 6-Sat, 7-Sun					
453	int8x2	R/W	01.01-12.31	01.01	Date	0x020C => Feb12					
454	int	R/W	2010-2250	2012	Year						
455	int	R/W	0-3	0	Language	0-English,1-Lithuanian,2-Russian, 3-Polish					
456	int	R/W	1-247	1	Modbus address						



Modbus			Data		D	Data values
register	Туре	Access	Range	Default	Description	Data values
457-458	int32	R/W		192.168.0.50	IP address	
459	int	R/W	0-3	0	Flow units	0-m3/h, 1-l/s, 2-m3/s, 3-Pa
460-467	int8x2	R	-		AHU S/N	
468-479	int8x2	R			AHU name	
480-481	int8x2	R/W			IP mask	With auto correction
482	int	R/W	-	19200 8E1	RS-485	Speed (b4b3): 0 – 9600, 1 – 19200, 2 – 38400, 3 – 57600; parity (b1): 0 – none, 1 – even; stop bits (b0): 0 – 1, 1 – 2
483	char	R/W	01	0	Daylight saving time	0-Disable, 1-Enable
485	short	R/W	065535	47809	BACnet port	
486-487	int32	R/W	04194303	20087	BACnet ID	

	FUNCTIONS									
Modbus			Data		Description	Data values				
register	Type	Access	Range	Default	Description	Data values				
501	int	R/W	2001800	1000	Air quality control: Setpoint 1	2001800ppm, 1090%, 1090%RH, 545C				
502	int	R/W	15	1	Air quality control: Mode 1	1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special				
503	int	R/W	2001800	1000	Air quality control: Setpoint 2	2001800ppm, 1090%, 1090%RH, 545C				
504	int	R/W	15	1	Air quality control: Mode 1	1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special				
505	int	R/W	01	0	Outdoor comp. ventilation: Enable/ Disable	0-Disable, 1-Enable				
506	int	R/W	-400500	-400	Outdoor comp. ventilation: Winter comp. stop	-150 => -15.0C				
507	int	R/W	-400500	0	Outdoor comp. ventilation: Winter comp. start	-150 => -15.0C				
508	int	R/W	-400500	200	Outdoor comp. ventilation: Summer comp. start	250 => 25.0C				
509	int	R/W	-400500	500	Outdoor comp. ventilation: Summer comp. stop	250 => 25.0C				
510	int	R/W	01	0	Min. temperature control: Enable/Disable	0-Disable, 1-Enable				
511	int	R/W	-400500	150	Min. temperature control: Setpoint	-150 => -15.0C				
512	int	R/W	01	1	Override function: Enable/Disable	0-Disable, 1-Enable				
513	int	R/W	02	0	Override function: Override type	0-All time, 1-If on, 2-If off				
514	int	R/W	06	2	Override function: Mode	0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special, 6-Program				
515	int	R/W	01	0	Summer night cooling: Enable/Disable	0-Disable, 1-Enable				



	FUNCTIONS									
Modbus register			Data		Description	Data values				
516	Type int	Access R/W	100500	Default 250	Summer night cooling: Start temperature	250 => 25.0C				
517	int	R/W	01	0	Operation on demand: Enable/Disable	0-Disable, 1-Enable				
518	int	R/W	2001800	150	Operation on demand: Setpoint	2001800ppm, 1090%, 1090%RH, 545C				
519	int	R/W	01	0	Recirculation control: Enable/Disable	0-Disable, 1-Enable				
520	int	R/W	2001800	600	Recirculation control: Setpoint	2001800ppm, 1090%, 1090%RH, 545C				
521	int	R/W	080	30	Recirculation control: Min. fresh air					
522	int	R/W	-400500	-400	Recirculation control: Winter recirculation end	-150 => -15.0C				
523	int	R/W	-400500	0	Recirculation control: Winter recirculation start	-150 => -15.0C				
524	int	R/W	-400500	200	Recirculation control: Summer recirculation start	250 => 25.0C				
525	int	R/W	-400500	500	Recirculation control: Summer recirculation end	250 => 25.0C				
526	int	R/W	0100	0	Recirculation control: Default recirculation					
527	int	R/W	0100	60	Recirculation control: Activated recirculation					
528	int	R/W	01	0	Humidity control: Enable/Disable	0-Disable, 1-Enable				
529	int	R/W	1090	1000	Humidity control: Setpoint 1	1090%RH				
530	int	R/W	15	1	Humidity control: Mode 1	1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special				
531	int	R/W	1090	1000	Humidity control: Setpoint 2	1090%RH				
532	int	R/W	15	2	Humidity control: Mode 2	1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special				
533	int	R/W	15	1	Recirculation control: Mode 1	1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special				
534	int	R/W	2001800	900	Recirculation control: Setpoint 2	2001800ppm, 1090%, 1090%RH, 545C				
535	int	R/W	15	2	Recirculation control: Mode 2	1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special				
536	int	R/W	0100	20	Recirculation control: Min. fresh air 2					
537	int	R/W	150500	200	Summer night cooling: Stop temperature	200 => 20.0C				
538	bin	R/W	01	0	Inspection lighting: Enable/Disable					
539	bin	R/W	01	0	Additional zone 1: Enable/Disable					
540	int	R/W	-400400	210	Additional zone 1: Setpoint	200 => 20,0C				
541	bin	R/W	01	0	Additional zone 2: Enable/Disable					



	FUNCTIONS										
Modbus			Data		Description	Data values					
register	Type	Access	Range	Default	Description	Data values					
542	int	R/W	-400400	210	Additional zone 2: Setpoint	200 => 20,0C					
543	int	R/W	-5001200	-32768	External room temperature sensor	200 => 20.0C. Overrides extract flow temperature sensor for temperature control only when written value is in range					
544	int	R/W	-12	0	Digital input IN4 override	Overrides digital input IN4 for combined heating & cooling coil control. (-1 – function not available or disabled, 0 – heating (winter mode), 1 – cooling (summer mode), 2 – error)					
545	int	R/W	04	0	Air quality sensor type	0 – CO2, 1 – VOCq, 2 – VOCp, 3 – RH, 4 – temperature					
546	int	R/W	02	-	CF heat exchanger calibration	0-No calibration, 1- Calibrated, 2-Calibrating. Write 1 to start calibration					
547	int	R/W	02	-	HUM mode	0-Supply, 1-Indoor+Supply, 2-Indoor					
548	int	R/W	01	0	Humidity control: Type	0 - Relative humidity, 1 - Absolute humidity					
549	int	R/W	01	0	Humidity control: Units	Relative humidity: 0 - %RH. Absolute humidity: 0 - g/m³, 1 - g/kg.					
550	int	R/W	20100	0	OCV Minimum airflow	%					

					ALARMS	
Modbus			Data	1	Description	Data values
register	Type	Access	Range	Default	Description	Data values
1000	int	R/W	010	-	Active alarms count	Writing 0x99C5 - Active alarms reset and restore previous mode
1001	hex	R		-	Active alarm 1 code (newest)	
1002	hex	R		-	Active alarm 2 code	
1003	hex	R		-	Active alarm 3 code	
1004	hex	R		-	Active alarm 4 code	
1005	hex	R		-	Active alarm 5 code	
1006	hex	R		-	Active alarm 6 code	
1007	hex	R		-	Active alarm 7 code	
1008	hex	R		-	Active alarm 8 code	
1009	hex	R		-	Active alarm 9 code	
1010	hex	R		-	Active alarm 10 code	
1100	int	R	050	-	Alarm history count	
1101	int	R	20102250	-	Alarm1(newest) year	
1102	int8x2	R	01.01-12.31	-	Alarm1(newest) month-day	0x020C => Feb12
1103	int8x2	R	0:00-23:59	-	Alarm1(newest) time	0x0805 => 8:05
1104	int	R	059	-	Alarm1(newest) seconds	



					ALARMS	
Modbus	dbus Data				Description	Data values
register	Type	Access	Range	Default	Description	Data values
1105	hex	R		-	Alarm1(newest) code	4B => 0x0104
1346	int	R	20102250	-	Alarm50 year	
1347	int8x2	R	01.01-12.31	=	Alarm50 month-day	0x020C => Feb12
1348	int8x2	R	0:00-23:59	-	Alarm50 time	0x0805 => 8:05
1349	int	R	059	-	Alarm50 seconds	
1350	hex	R		-	Alarm50 code	4B => 0x0104

	MONITORING DATA									
Modbus			Data		Description	Data values				
register	Type	Access	Range	Default	Description	Data values				
2000	int	R	0-2	-	C5 Start/Stop current status	0-Stop, 1-Enabled but fans are stopped, 2-Running				
2001	int	R	0-5	-	Current mode	0-Standby, 1-Comfort1, 2-Comfort2, 3-Economy1, 4-Economy2, 5-Special				
2002-2003	int	R	-	-	Current supply flow	3500 => 3500 m3/h, 3.500 m3/s, 3500 l/s				
2004-2005	int	R	-	-	Current exhaust flow	3500 => 3500 m3/h, 3.500 m3/s, 3500 l/s				
2006	int	R	-5001200	-	Current supply temp., C	250 => 25.0C				
2007	int	R	-5001200	-	Current extract temp., C	250 => 25.0C				
2008	int	R	-5001200	-	Current outdoor temp., C	250 => 25.0C				
2009	int	R	-5001200	-	Current exhaust temp., C	250 => 25.0C				
2010	int	R	-5001200	-	Current return water temp., C	250 => 25.0C				
2011	int	R	01000	-	Supply air pressure	250 => 250 Pa				
2012	int	R	01000	-	Extract air pressure	250 => 250 Pa				
2013	int	R	04	-	Air quality sensor type	0-CO2, 1-VOCq, 2-VOCp, 3-RH, 4-TMP				
2014	int	R	02000	-	Current air quality level	CO2: 02000ppm, VOC: 01000(0100%), RH: 01000(0100%), TMP: 0500(050C)				
2015	int	R	01000	-	Current supply air humidity	157 => 15.7%				
2016	int	R	01000	-	Water heater level					
2017	int	R	01000	-	Water cooler level					
2018	int	R	01000	-	Humidity control level					
2019	int	R	01000	-	Heat exchanger level					



	MONITORING DATA								
Modbus		1	Data		Description	Data values			
register	Туре	Access	Range	Default					
2020	int	R	01000	-	Recirculation level				
2021	int	R	01000	-	Supply fan level				
2022	int	R	01000	-	Exhaust fan level				
2023	int	R	01000	-	Outdoor air damper actuator level				
2024	int	R	01000	-	Exhaust air damper actuator level				
2025	int	R	01000	-	Electric heater level				
2026	int	R	-10001000	-	Heat pump level				
2027	int	R	-10001000	-	DX level				
2028	bin	R	01	-	OVR input				
2029	bin	R	01	-	Fire system input				
2030	bin	R	01	-	External stop input				
2031	bin	R	01	-	Control input				
2032	int	R	50400	-	Current temp. setpoint, C	250 => 25.0C			
2033	int	R	50400	-	Current supply air temp. setpoint, C	250 => 25.0C			
2034	bin	R	01	-	Water heater pump				
2035	bin	R	01	-	Water cooler pump				
2036-2037	int	R	-	-	Current supply flow setpoint	3500 => 3500 m3/h, 3.500 m3/s, 3500 l/s			
2038-2039	int	R	-	-	Current extract flow setpoint	3500 => 3500 m3/h, 3.500 m3/s, 3500 l/s			
2040	int	R	-5001200	-	Current internal supply temp., C	250 => 25.0C			
2041	int	R	-5001200	-	Additional zone 1: current supply temp., C	250 => 25.0C			
2042	int	R	-5001200	-	Additional zone 1: current return water temp., C	250 => 25.0C			
2043	int	R	-5001200	-	Additional zone 2: current supply temp., C	250 => 25.0C			
2044	int	R	-5001200	-	Additional zone 2: current return water temp., C	250 => 25.0C			
2045	int	R	01	-	Alarm DOUT	0-No alarms, 1-Active alarms			
2046	int	R	0400	-	Current supply air absolute humidity	250 => 25.0 g/m³ or g/kg			
2200	bin	R		-	Counters/efficiencies configuration	b8-Exhaust fan units(0-h, 1-kWh), b7-Supply fan units(0-h, 1-kWh), b6-Exhaust fan counter, b5-Heater counter, b4-Extract flier, b3-Outdoof filer, b2-Exhaust 5FP, b1-Supply SFP, b0-HX efficiency (0-Unavailable, 1-Available)			



	MONITORING DATA									
Modbus			Data		Description	Data values				
register	Type	Access	Range	Default	Description	Data values				
2201	int	R	0100, 255	-	Heat exchanger thermal efficiency, %	255 - Unavailable				
2202	int	R	0100, 255	-	Energy saving, %	255 - Unavailable				
2203-2204	int	R		-	Heat exchanger recovery, W	2500 => 2.5kW (0xFFFFFFFF - Unavailable)				
2205	int	R		-	Supply SFP	125 => 1.25				
2206	int	R		-	Exhaust SFP	125 => 1.25				
2207	int	R	0100	-	Outdoor air filter impurity level, %	For AHU with filter pressure sensors				
2208	int	R	0100	-	Exhaust air filter impurity level, %	For AHU with filter pressure sensors				
2209-2210	int	R	01′000′000	-	Air heater operation, hours					
2211-2212	int	R	050'000'000	-	Supply fan operation, hours or kWh					
2213-2214	int	R	050'000'000	-	Exhaust fan operation, hours or kWh					
2215	int	R	065535	-	Current supply fan power, W					
2216	int	R	065535	-	Current exhaust fan power, W					
2217	bin	R		-	Active functions	b5-OOD,b4-AQC,b3-SNC,b2-MTC,b1-OVR,b0-OCV				
2218-2219	int	R	01′000′000	-	Air cooler operation, hours					
2220-2221	int	R	04′000′000	-	Heat exchanger operation, kWh					
2222-2223	int	R	04′000′000	-	Air heater operation, kWh					

				MON	ITORING DATA ZONE 1	
Modbus			Data		Description	Data values
register	Type	Access	Range	Default	Description	Data values
2300	int	R	01000	-	Electric heater: level	
2301	int	R	01000	-	Electric heater: cooler level	
2302	int	R	-5001200	-	Electric heater: air temperature	
2303	int	R	01000	-	Electric heater: air quality	
2304	int	R	01200	-	Electric heater: heater temperature	01200 when NTC sensor is selected, 0-1000 when TK70 sensor is selected
2305	bin	R	-	-	Electric heater: stages active	b3 – stage4, b2 – stage3, b1 – stage2, b0 – stage1
2306	bin	R	-	-	Electric heater: inputs	b2 – TK70, b1 – TK60, b0 – TK100
2307	bin	R	-	-	Electric heater: alarms	b2 – TK60 alarm, b1 – TK70 alarm, b0 – TK100 alarm
2310	int	R	01000	-	Water: heater level	



	MONITORING DATA ZONE 1									
Modbus			Data		D	P-tli				
register	Type	Access	Range	Default	Description	Data values				
2311	int	R	01000	-	Water: cooler level					
2312	int	R	-5001200	-	Water: air temperature					
2313	int	R	01000	-	Water: air quality					
2314	int	R	-3001200	-	Water: return water temperature					
2315	bin	R	-	-	Water: outputs	b1 – cooling pump, b0 – heating pump				
2316	bin	R	-	-	Water: inputs	b1 – combined coil is: 1-cooling, 0-heating, b0 – low water temperature,				
2317	bin	R	-	-	Water: alarms	b0 – Low water temperature				
2320	int	R	-10001000	-	DX level unit: level	> 0 - heating, < 0 - cooling, -32768 - forced stop				
2321	int	R	01000	-	DX level unit: cooler level					
2322	int	R	-5001200	-	DX level unit: air temperature					
2323	int	R	01000	-	DX level unit: air quality					
2325	bin	R	-	-	DX level unit: operating & stages active	b4 – reverse: 1-heating, 0-cooling, b3 – stage4, b2 – stage3, b1 – stage2, b0 – stage1				
2326	bin	R	-	-	DX level unit: inputs	b0 – external error				
2327	bin	R	=	-	DX level unit: alarms	b0 – external error alarm				
2330	int	R	-10001000	-	DX modulated unit: level/setpoint/error	Level or temperature setpoint (t 010V) or temperature error signal (0510V), depending on configuration				
2331	int	R	01000	-	DX modulated unit: cooler level					
2332	int	R	-5001200	-	DX modulated unit: air temperature					
2333	int	R	01000	-	DX modulated unit: air quality					
2335	bin	R	-	-	DX modulated unit: control outputs	b2 – heating, b1 – cooling, b0 – operation				
2336	bin	R	-	-	DX modulated unit: inputs	b0 – external error				
2337	bin	R	-	-	DX modulated unit: alarms	b0 – external error alarm				

	MONITORING DATA ZONE 2										
Modbus			Data		Description	Data values					
register	Type	Access	Range	Default	Description	Data values					
2400	int	R	01000	-	Electric heater: level						
2401	int	R	01000	=	Electric heater: cooler level						
2402	int	R	-5001200	-	Electric heater: air temperature						
2403	int	R	01000	=	Electric heater: air quality						



	MONITORING DATA ZONE 2								
Modbus register			Data	564	Description	Data values			
2404	Type	Access	01200	Default	Electric heater: heater	01200 when NTC sensor is selected, 0-1000 when TK70			
2404	int	К	01200	-	temperature	sensor is selected			
2405	bin	R	-	-	Electric heater: stages active	b3 – stage4, b2 – stage3, b1 – stage2, b0 – stage1			
2406	bin	R	-	-	Electric heater: inputs	b2 – TK70, b1 – TK60, b0 – TK100			
2407	bin	R	-	-	Electric heater: alarms	b2 – TK60 alarm, b1 – TK70 alarm, b0 – TK100 alarm			
2410	int	R	01000	-	Water: heater level				
2411	int	R	01000	-	Water: cooler level				
2412	int	R	-5001200	-	Water: air temperature				
2413	int	R	01000	-	Water: air quality				
2414	int	R	-3001200	-	Water: return water temperature				
2415	bin	R	-	-	Water: outputs	b1 – cooling pump, b0 – heating pump			
2416	bin	R	-	-	Water: inputs	b1 – combined coil is: 1-cooling, 0-heating, b0 – low water temperature,			
2417	bin	R	-	-	Water: alarms	b0 – Low water temperature			
2420	int	R	-10001000	-	DX level unit: level	> 0 – heating, < 0 – cooling, -32768 – forced stop			
2421	int	R	01000	-	DX level unit: cooler level				
2422	int	R	-5001200	-	DX level unit: air temperature				
2423	int	R	01000	-	DX level unit: air quality				
2425	bin	R	-	-	DX level unit: operating & stages active	b4 – reverse: 1-heating, 0-cooling, b3 – stage4, b2 – stage3, b1 – stage2, b0 – stage1			
2426	bin	R	-	-	DX level unit: inputs	b0 – external error			
2427	bin	R	-	-	DX level unit: alarms	b0 – external error alarm			
2430	int	R	-10001000	-	DX modulated unit: level/setpoint/error	Level or temperature setpoint (t 010V) or temperature error signal (0510V), depending on configuration			
2431	int	R	01000	-	DX modulated unit: cooler level				
2432	int	R	-5001200	-	DX modulated unit: air temperature				
2433	int	R	01000	-	DX modulated unit: air quality				
2435	bin	R	-	-	DX modulated unit: control outputs	b2 – heating, b1 – cooling, b0 – operation			
2436	bin	R	-	-	DX modulated unit: inputs	b0 – external error			
2437	bin	R	-	-	DX modulated unit: alarms	b0 – external error alarm			



					SERVICE	
Modbus		Data			Description	Data values
register	Type	Access	Range	Default	Description	Data values
900	bin	R/W		0	Modes reset to default	b4-Special, b3-Economy2, b2-Economy1, b1-Comfort2, b0-Comfort1
901	bin	R/W		0	Functions reset to default	b9-ZN2, b8-ZN1, b7-HUM, b6-REC, b5-OOD, b4-SNC, b3-OVR, b2-MTC, b1-OCV, b0-AQC
902	bin	R/W		0	Settings reset to default	b3-485_Config, b2-IP+Mask, b1-Flow_mode, b0-Temp_mode
2852	bin	R	01	-	Digital input: Outdoor filter	For AHU without filter pressure sensors. 0-Clean, 1-Dirty
2853	bin	R	01	=	Digital input: Extract filter	For AHU without filter pressure sensors. 0-Clean, 1-Dirty
18000	int	R/W	0	=	User password reset	Write 0x99C5 to reset
18001	int	R/W	0	=	User settings reset	Write 0x99C5 to reset
18002	int	R/W	0	-	Clean air filters calibration	Write 0x99C5 to start calibration
18003	int	R/W	0	=	Counters reset	Write 0x??C5 to reset, ?? => b2-Exhaust fan, b1-Supply fan, b0-Air heater (1 – Reset). 0X01C5 => Reset air heater counter only, 0x07C5 => Reset both fans and air heater counters
18004	int	R	09999	-	Controller firmware version	
18005	int	R/W	01000	0	Service time counter	0100.0%, Write 0x99C5 to reset

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