mP20II - BIG CHILLER VITE: DIGITAL VARIABLES (COILS)

TCP/IP							
variable address	Description	variable	MODBUS Database (e.g. address -> bit nr.)				
		type					
			unit 1	unit 2	unit 3	unit n	
0	Not used		1	201	401	(n-1)*200+1	
1	System On	r	2	202	402	(n-1)*200+2	
2	Compressor 1 ON- 25% step	r	3	203	403	(n-1)*200+3	
3	Compressor 1-50% step	r	4	204	404	(n-1)*200+4	
4	Compressor 1- 75% step	r	5	205	405	(n-1)*200+5	
5	Compressor 1-100% step	r	6	206	406	(n-1)*200+6	
6	Compressor 2 ON-25% step	r	7	207	407	(n-1)*200+7	
7	Compressor 2-50% step	r	8	208	408	(n-1)*200+8	
8	Compressor 2-75% step	r	9	209	409	(n-1)*200+9	
9	Compressor 2-100% step	r	10	210	410	(n-1)*200+10	
10	Liquid solenoid valve circuit 1	r	11	211	411	(n-1)*200+11	
11	Liquid solenoid valve circuit 2	r	12	212	412	(n-1)*200+12	
12	Pump 1 on	r	13	213	413	(n-1)*200+13	
13	Pump 2 on	r	14	214	414	(n-1)*200+14	
14	Freecooling pump on	r	15	215	415	(n-1)*200+15	
15	Antifreeze heaters (option)	r	16	216	416	(n-1)*200+16	
16	100% Heat recovery (option)	r	17	217	417	(n-1)*200+17	
17	Regulated condensing Fans	r	18	218	418	(n-1)*200+18	
18	Direct condensing Fans	r	19	219	419	(n-1)*200+19	
19	Regulated condensing Fans 2	r	20	220	420	(n-1)*200+20	
20	Direct condensing Fans 2	r	21	221	421	(n-1)*200+21	
21	Circuit 1 Defrost (Heat pump only)	r	22	222	422	(n-1)*200+22	
22	Circuit 2 Defrost (Heat pump only)	r	23	223	423	(n-1)*200+23	
23	Low power consumption mode	r	24	224	424	(n-1)*200+24	
24	Winter mode (Heat pump only)	r	25	225	425	(n-1)*200+25	
25	Wrong password Alarm	r	26	226	426	(n-1)*200+26	
26	Water inlet High Temperature Alarm	r	27	227	427	(n-1)*200+27	
27	Water inlet Low Temperature Alarm	r	28	228	428	(n-1)*200+28	
28	Loss of water flow Alarm	r	29	229	429	(n-1)*200+29	
29	Low Pressure 1 PreAlarm (Autom.Reset)	r	30	230	430	(n-1)*200+20	
30	Low Pressure 2 PreAlarm (Autom.Reset)	r	31	231	431	(n-1)*200+31	
31	Low Pressure 1 Alarm		32	232	432	(n-1)*200+31	
32	Low Pressure 1 Alarm	r	33	233	433	(n-1)*200+32	
33	High Pressure 1 Alarm	r	34	234	434	(n-1)*200+33	
34	High Pressure 2 Alarm		35	235	434	(n-1)*200+34 (n-1)*200+35	
		r					
35	DischargeTemp. Sensor Failure/Disconnected Comp.1 DischargeTemp. Sensor Failure/Disconnected Comp.2	r	36	236	436	(n-1)*200+36	
36		r	37	237	437	(n-1)*200+37	
37	Compressor 1 Overload Alarm	r	38	238	438	(n-1)*200+38	
38	Compressor 2 Overload Alarm	r	39	239	439	(n-1)*200+39	
39	Oil differential pressure 1 Alarm	r 	40	240	440	(n-1)*200+40	
40	Oil differential pressure 2 Alarm	r	41	241	441	(n-1)*200+41	
41	Antifreeze 1 Prealarm (Automatic Reset)	r	42	242	442	(n-1)*200+42	

mP20II - BIG CHILLER VITE: DIGITAL VARIABLES (COILS) (following)

variable address	Description	variable type	MODBUS Database				
			(e.g. address -> bit nr.)				
			unit 1	unit 2	unit 3	unit n	
42	Antifreeze 2 Prealarm (Automatic Reset)	r	43	243	443	(n-1)*200+43	
43	Antifreeze 1 Alarm	r	44	244	444	(n-1)*200+44	
44	Antifreeze 2 Alarm	r	45	245	445	(n-1)*200+45	
45	Heat recovery limit Alarm	r	46	246	446	(n-1)*200+46	
46	Heat recovery limit PreAlarm (Autom.Reset)	r	47	247	447	(n-1)*200+47	
47	Circulating Pump 1 Overload Alarm	r	48	248	448	(n-1)*200+48	
48	Circulating Pump 2 Overload Alarm	r	49	249	449	(n-1)*200+49	
49	Freecooling Pump Overload Alarm	r	50	250	450	(n-1)*200+50	
50	Interrupted LAN Alarm	r	51	251	451	(n-1)*200+51	
51	Water Inlet Temp. Sensor Failure/Disconnected	r	52	252	452	(n-1)*200+52	
52	Water Outlet Temp. Sensor Failure/Disconnected	r	53	253	453	(n-1)*200+53	
53	Water Tank Temp. Sensor Failure/Disconnected	r	54	254	454	(n-1)*200+54	
54	Outdoor air Temp. Sensor Failure/Disconnected	r	55	255	455	(n-1)*200+55	
55	Condensing 1 Temp. Sensor Failure/Disconnected	r	56	256	456	(n-1)*200+56	
56	Condensing 2 Temp. Sensor Failure/Disconnected	r	57	257	457	(n-1)*200+57	
57	Evaporating 1 Press. Sensor Failure/Disconnected	r	58	258	458	(n-1)*200+58	
58	Evaporating 2 Press. Sensor Failure/Disconnected	r	59	259	459	(n-1)*200+59	
59	Summer/Winter mode remote control	r/w	60	260	460	(n-1)*200+60	
60	Unit Remote Switch-On/Off Control	r/w	61	261	461	(n-1)*200+61	
61	Buzzer and Alarm Remote Reset Control	r/w	62	262	462	(n-1)*200+62	
62	Pump 1-2 Switch-over remote control	r/w	63	263	463	(n-1)*200+63	
63	Set Back Mode (Sleep Mode)	r/w	64	264	464	(n-1)*200+64	
64	Reserved variable	r/w	65	265	465	(n-1)*200+65	
65	Usage of Temp. Values: Local (0) / Mean (1)	r/w	66	266	466	(n-1)*200+66	
66	No. Of Stand-by Units: one (0) / two (1)	r	67	267	467	(n-1)*200+67	
67	Water tank range	r	68	268	468	(n-1)*200+68	
68	Pump 1-2 Switch-over remote control	r	69	269	469	(n-1)*200+69	
69	General Alarm State	r	70	270	470	(n-1)*200+70	
70	2nd Level Alarm State	r	71	271	471	(n-1)*200+71	
71	Circuit 1 Pump-down Failed	r	72	272	472	(n-1)*200+72	
72	Circuit 2 Pump-down Failed	r	73	273	473	(n-1)*200+73	
73	Circuit 1 Compressor malfunction	r	74	274	474	(n-1)*200+74	
74	Circuit 2 Compressor malfunction	r	75	275	475	(n-1)*200+75	
75	High condensing temperature 1	r	76	276	476	(n-1)*200+76	
76	High condensing temperature 2	r	77	277	477	(n-1)*200+77	
77	Circuit 1 Compressor Operative Limits	r	78	278	478	(n-1)*200+78	
78	Circuit 2 Compressor Operative Limits	r	79	279	479	(n-1)*200+79	
79	Defrost Limits non performing	r	80	280	480	(n-1)*200+80	
80	Compressor 1 hour counter		81	281	481	(n-1)*200+80	
81	Compressor 1 hour counter Compressor 2 hour counter	r	82	282	482	(n-1)*200+81	
	·	r				, ,	
82	Circulating Pump 1 hour counter	r	83	283	483	(n-1)*200+83	
83	Circulating Pump 2 hour counter	r	84	284	484	(n-1)*200+84	
84	Freecooling Pump hour counter	r	85	285	485	(n-1)*200+85	
85	Low power request	r	86	286	486	(n-1)*200+86	

mP20II – BIG CHILLER VITE: ANALOG VARIABLES (HOLDING or INPUT REGISTERS)

(all values x 10)

variable	description (all va	m.u.	variable	MODBUS Database				
address			type	(e.g. address -> bit nr.)				
				unit 1	unit 2	unit 3	unit n	
0	Not used	-	-	1	257	513	(n-1)*256+1	
1	Water Outlet Temperature	°C	r	2	258	514	(n-1)*256+2	
2	Water Outlet Temp. used by regulator	°C	r	3	259	515	(n-1)*256+3	
3	Water Inlet Temperature	°C	r	4	260	516	(n-1)*256+4	
4	Water Tank Temperature	℃	r	5	261	517	(n-1)*256+5	
5	Outdoor Air Temperature	℃	r	6	262	518	(n-1)*256+6	
6	Circuit 1 Condensing Temperature	℃	r	7	263	519	(n-1)*256+7	
7	Circuit 2 Condensing Temperature	℃	r	8	264	520	(n-1)*256+8	
8	Circuit 1 Evaporating Temperature	℃	r	9	265	521	(n-1)*256+9	
9	Circuit 2 Evaporating Temperature	℃	r	10	266	522	(n-1)*256+10	
10	Circuit 1 Condensing Pressure	Bar	r	11	267	523	(n-1)*256+11	
11	Circuit 2 Condensing Pressure	Bar	r	12	268	524	(n-1)*256+12	
12	Circuit 1 Evaporating Pressure	Bar	r	13	269	525	(n-1)*256+13	
13	Circuit 2 Evaporating Pressure	Bar	r	14	270	526	(n-1)*256+14	
14	Discharge temperature compressor 1	℃	r	15	271	527	(n-1)*256+15	
15	Discharge temperature compressor 2	℃	r	16	272	528	(n-1)*256+16	
16	Fan Speed Modul.Ramp (circuit 1) (0-100,0%)	%	r	17	273	529	(n-1)*256+17	
17	Fan Speed Modul. Ramp circuit 2 (0-100,0%)	%	r	18	274	530	(n-1)*256+18	
18	Delivery Water Temp. Actual Set Point	℃	r/w	19	275	531	(n-1)*256+19	
19	Delivery Water Temp. Max. Hysteresi	℃	r/w	20	276	532	(n-1)*256+20	
21	Delivery Water Temp. Summer STD Set Point	°C	r/w	22	278	534	(n-1)*256+22	
22	Delivery Water Temp. Summer OPT Set Point	℃	r/w	23	279	535	(n-1)*256+23	
23	Del.Water T. Summer SetBack mode SetP.	℃	r/w	24	280	536	(n-1)*256+24	
24	Delivery Water Temp. Winter Set Point	℃	r/w	25	281	537	(n-1)*256+25	
25	Del.Water T. Winter SetBack mode SetP	℃	r/w	26	282	538	(n-1)*256+26	
26	CW inlet High Temp.Summer Alarm Threshold	℃	r/w	27	283	539	(n-1)*256+27	
27	CW inlet Low Temp.Summer Alarm Threshold	°C	r/w	28	284	540	(n-1)*256+28	
28	CW inlet High Temp. Alarm Winter Threshold	℃	r/w	29	285	541	(n-1)*256+29	
29	CW inlet Low Temp. Alarm Winter Threshold	℃	r/w	30	286	542	(n-1)*256+30	
30	Summer T.ext Compens.: P1 T.ext SetP.	℃	r/w	31	287	543	(n-1)*256+31	
31	Summer T.ext Compens.: P2 T.wout SetP.	℃	r/w	32	288	544	(n-1)*256+32	
32	Summer T.ext Compens.: P2 T.ext SetP.	℃	r/w	33	289	545	(n-1)*256+33	
33	Winter T.ext Compens.: P1 T.ext SetP.	℃	r/w	34	290	546	(n-1)*256+34	
34	Winter T.ext Compens.: P2 T.wout SetP.	℃	r/w	35	291	547	(n-1)*256+35	
35	Winter T.ext Compens.: P2 T.ext SetP.	℃	r/w	36	292	548	(n-1)*256+36	
36	Free-Cooling Activation Set Point	°C	r/w	37	293	549	(n-1)*256+37	
37	Circuit 1 Superheating	°C	r	38	294	550	(n-1)*256+38	
38	Circuit 2 Superheating	°C	r	39	295	551	(n-1)*256+39	
39	Circuit 1 Suction Pressure	°C	r	40	296	552	(n-1)*256+40	
40	Circuit 2 Suction Pressure	°C	r	41	297	553	(n-1)*256+41	
41	Circuit 1 Suction Temperature	℃	r	42	298	554	(n-1)*256+42	
42	Circuit 2 Suction Temperature	°C	r	43	299	555	(n-1)*256+43	

mP20II – BIG CHILLER VITE: INTEGER VARIABLES (HOLDING or INPUT REGISTERS)

variable	description	m.u.	variable type	MODBUS Database			
address				(e.g. address -> bit nr.)			
				unit 1	unit 2	unit 3	unit n
0	Not Used	-	-	129	385	641	(n-1)*256+128+1
1	Compressor 1 hour counter	h	r	130	386	642	(n-1)*256+128+1
2	Compressor 2 hour counter	h	r	131	387	643	(n-1)*256+128+1
3	Circulating Pump 1 hour counter	h	r	132	388	644	(n-1)*256+128+4
4	Circulating Pump 2 hour counter	h	r	133	389	645	(n-1)*256+128+5
5	Free-cooling Pump hour counter	h	r	134	390	646	(n-1)*256+128+6
6	Compressor 1 Starting counter	h	r	135	391	646	(n-1)*256+128+7
7	Compressor 1 Starting counter x10.000	h	r	136	392	648	(n-1)*256+128+8
8	Compressor 2 Starting counter	n	r	137	393	649	(n-1)*256+128+9
9	Compressor 2 Starting counter x10.000	nx10 ⁴	r	138	394	650	(n-1)*256+128+10
10	Circuit 1 Defrost counter	n	r	139	395	651	(n-1)*256+128+11
11	Circuit 1 Defrost counter x10.000	nx10 ⁴	r	140	396	652	(n-1)*256+128+12
12	Circuit 2 Defrost counter	n	r	141	397	653	(n-1)*256+128+13
13	Circuit 2 Defrost counter x10.000	nx10 ⁴	r	142	398	654	(n-1)*256+128+14
14	Both Circuit Defrost counter	n	r	143	399	655	(n-1)*256+128+15
15	Both Circuit Defrost counter x10.000	nx10 ⁴	r	144	400	656	(n-1)*256+128+16
16	Non Performing Defrost counter	n	r	145	401	657	(n-1)*256+128+17
17	Non Performing Defrost counter x10.000	nx10 ⁴	r	146	402	658	(n-1)*256+128+18
18	Unit Type (0= STD Chiller, 1=Low Temp. Ch., 2=Ch.+Heat Rec.; 3=Heat Pump, 4=HP+Heat Rec. 5=Ch.+Energy Saving)	n	r	147	403	659	(n-1)*256+128+19
19	Circulating Pump Config. (0,1 or 2 Pumps)	n	r	148	404	660	(n-1)*256+128+20
20	Total of units connected in LAN	n	r	149	405	661	(n-1)*256+128+21
21	Comp.1 Status (0=Off,1=On,2=AL,3=Pump.Down)	n	r	150	406	662	(n-1)*256+128+22
22	Comp.2 Status	n	r	151	407	663	(n-1)*256+128+23
23	Comp.1 Step Status	n	r	152	408	664	(n-1)*256+128+24
24	Comp.2 Step Status	n	r	153	409	665	(n-1)*256+128+25
25	Pump 1 Status	n	r	154	410	666	(n-1)*256+128+26
26	Pump 2 Status	n	r	155	411	667	(n-1)*256+128+27
27	FC Pump Status	n	r	156	412	668	(n-1)*256+128+28
28	Actual set Point mode (0=std,1= T.ext Compens., 2=OPT SetP., 3=Setback SetP., 4=Remote Offset	n	r	157	413	669	(n-1)*256+128+29
29	Reserved variable	r	r	158	414	670	(n-1)*256+128+30
30	Reserved variable	r	r	159	415	671	(n-1)*256+128+31
31	Last Defrost Lenght	s	r	160	416	672	(n-1)*256+128+32
32	Restart Delay	s	r	161	417	673	(n-1)*256+128+33
33	Regulation Start Transitory	s	r	162	418	674	(n-1)*256+128+34
34	Low Pressure Delay	s	r	163	419	675	(n-1)*256+128+35
35	Water High/Low Temp. Alarm Delay	min	r/w	164	420	676	(n-1)*256+128+36
36	Excursion time	s	r	165	421	677	(n-1)*256+128+37
37	Stand-by Unit Switch-over time	h	r	166	422	678	(n-1)*256+128+38

Nome file: V_Bigchil_vite vers. 1.2 del 15/07/10

mP20II – BIG CHILLER VITE: INTEGER VARIABLES (HOLDING or INPUT REGISTERS)

variable	Description	m.u.	variable	MODBUS Database					
address			type		(e.g. a	address ->	dress -> bit nr.)		
				unit 1	unit 2	unit 3	unit n		
38	Run-Stand-by pump switch-over time	Н	r/w	167	423	679	(n-1)*256+128+39		
39	Setback Mode Cyclical start	Min	r/w	168	424	680	(n-1)*256+128+40		
40	Compr.1 working hours threshold	h *100	r/w	169	425	681	(n-1)*256+128+41		
41	Compr.2 working hours threshold	h *100	r/w	170	426	682	(n-1)*256+128+42		
42	Pump 1 working hours threshold	h *100	r/w	171	427	683	(n-1)*256+128+43		
43	Pump 2 working hours threshold	h *100	r/w	172	428	684	(n-1)*256+128+44		
44	FC Pump working hours threshold	h *100	r/w	173	429	685	(n-1)*256+128+45		
45	Reserved		r	174	430	686	(n-1)*256+128+46		
46	Reserved		r	175	431	687	(n-1)*256+128+47		
47	Compressor 1 Current Absorbed	Α	r	176	432	688	(n-1)*256+128+48		
48	Compressor 2 Current Absorbed	Α	r	177	433	689	(n-1)*256+128+49		
79	Circuit 1 EXV Position	Step	r	208	464	720	(n-1)*256+128+80		
80	Circuit 2 EXV Position	Step	r	209	465	721	(n-1)*256+128+81		
81	Hour	Н	r	210	466	722	(n-1)*256+128+82		
82	Minute	Min	r	211	467	723	(n-1)*256+128+83		
83	Day	D	r	212	468	724	(n-1)*256+128+84		
84	Month	М	r	213	469	725	(n-1)*256+128+85		
85	Year	Υ	r	214	470	726	(n-1)*256+128+86		