

Weishaupt CanApiJson / CAPI / CAN Api – Parsed telegrams:										https://github.com/BorgNumberOne/Weishaupt_CanApiJson										RAW CanApiJson telegram																	
Weishaupt CanApiJson / Weishaupt CAPI side of a Weishaupt Gateway WEM-Modbus										Modbus TCP side of a Weishaupt Gateway WEM-Modbus																											
SRC requesting device: DDC responding device: SYS	CM	01 = request reading 02 = respond reading 03 = request writing 04 = respond writing 05 = error						HEX to DEC (OX)	Cycle Time (in s) between DDC telegrams	Modbus TCP register on the Modbus TCP side of Weishaupt Gateway WEM-Modbus																											
		MI	MX	OS	VS	VA	Reg. Registername 7.5.1 EM-KA 0 Temperaturfühler an Anschluss T1 1 Temperaturfühler an Anschluss T2 2 PWM-Signal an Umwälzpumpe			Funktion Kaskadengerät Kaskadengerät Kaskadengerät	Datentyp	Auflösg.	Länge	S/Cov	Aktualis.																						
						not available in Gateway WEM																															
DDC	01	04	00	2501	00	0002	00	9473	10	Sol SOL1	20 20 Kollektortemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	s/30s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010400250100000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02040025010000028007\"]"]]																				
SYS	02	04	00	2501	00	0002	8000	9473																													
DDC	01	04	00	2502	00	0002	00	9474	30	Sol SOL1	21 21 Speichertemperatur unten	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010400250200000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02040025020000020207\"]"]]																				
SYS	02	04	00	2502	00	0002	0207	9474																													
DDC	01	04	00	252b	02	0004	00	9515	60	Sol SOL1	22 22, Solarentrag Gesamtzähler	Solarentrag	Wirkarbeit	0,01 kWh	4 Bytes	1z/10min	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010400252b02000400000400\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020400252b0200040000000007\"]"]]																				
SYS	02	04	00	252b	02	0004	000000000	9515																													
DDC	01	04	00	252a	02	0004	00	9514	30	Sol SOL1	24 24, Solarentrag (heute)	Solarentrag	Wirkarbeit	0,01 kWh	4 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010400252a02000400000400\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020400252a0200040000000007\"]"]]																				
SYS	02	04	00	252a	02	0004	000000000	9514																													
DDC	01	04	00	2529	02	0004	00	9513	60	Sol SOL1	26 26, Solarentrag (Vortag)	Solarentrag	Wirkarbeit	0,01 kWh	4 Bytes	1z/10min	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010400252902000400000400\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02040025290200040000000007\"]"]]																				
SYS	02	04	00	2529	02	0004	000000000	9513																													
DDC	01	02	00	2533	02	0001	00	9523	30	SG SG1	100 100 Betriebsart Heizkreis 1 Vorgabe	1: Standby 2: Zeitprogramm 1 3: Zeitprogramm 2 4: Zeitprogramm 3 5: Sommer 6: Komfort 7: Normal 8: Absenken	Schalten	1 Byte	S	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200253302000100\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200253302000102\"]"]]																				
SYS	02	02	00	2533	02	0001	02	9523																													
DDC	01	02	00	2582	02	0001	00	9602	30	SG SG1	101 101 SolWi Umschaltung Heizkreis 1	0: Aus 1: Ein	Boolesch	1 Byte	S	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200258202000100\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200258202000101\"]"]]																				
SYS	02	02	00	2582	02	0001	01	9602																													
DDC	01	02	00	257e	04	0001	00	9598	30	SG SG1	102 102 Betriebsart Heizkreis 1 aktuell	1: System Standby 2: System Sommer 3: Estrich: Funktionsheizen 4: Estrich: Belegfreihheizen 5: Urlaub 6: Zeitprogramm 1 7: Zeitprogramm 2 8: Zeitprogramm 3 9: Sommer 10: Absenken 11: Normal 12: Komfort 13: Standby	Schalten	1 Byte	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200257e04000100\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200257e04000106\"]"]]																					
SYS	02	02	00	257e	04	0001	06	9598																													
DDC	01	02	00	257e	05	0001	00	9598	30	SG SG1	103 103 Status Heizkreis 1	1: Raumfrostschutz 2: Anlagenfrostschutz 16: Eingang H1: Sonder 17: Eingang H1: Komfort 18: Eingang H1: Normal 19: Eingang H1: Absenken 20: Eingang H1: Standby 21: Eingang H1: Not-Aus 24: Party 32: Optimierung 33: Niveauanhebung Außentemperatur 48: ext. Notabnahme 49: ext. Überangebot 50: ext. Heizvorgabe 51: Warmwasser-vorrang 54: Sommerbetrieb witterungsgeführt 65: Heizgrenze Raum 66: Heizgrenze VL 67: Raumthermostat 80: Komfort 81: Normal 82: Absenken 83: Frost 84: Frostschutz aktiv	Schalten	1 Byte	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200257e05000100\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200257e05000154\"]"]]																					
SYS	02	02	00	257e	05	0001	54	9598																													
DDC	01	02	00	253b	02	0002	00	9531	30	SG SG1	106 106 Raumsolltemperatur	Komfort	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200253b02000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200253b02000200dc\"]"]]																			
SYS	02	02	00	253b	02	0002	00dc	9531																													
DDC	01	02	00	253a	02	0002	00	9530	30	SG SG1	107 107 Raumsolltemperatur	Normal	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200253a02000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200253a02000200d2\"]"]]																			
SYS	02	02	00	253a	02	0002	00d2	9530																													
DDC	01	02	00	2539	02	0002	00	9529	30	SG SG1	108 108 Raumsolltemperatur	Absenken	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200253902000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200253902000200e07\"]"]]																			
SYS	02	02	00	2539	02	0002	00e0	9529																													
DDC	01	02	00	2558	02	0002	00	9560	30	SG SG1	109 109 Raumsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200255802000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02020025580200020007\"]"]]																				
SYS	02	02	00	2558	02	0002	0000	9560																													
DDC	01	02	00	256b	02	0002	00	9579	30	SG SG1	110 110 Vorlaufsolltemperatur	Komfort	Temperatur	0,1 °C	2 Bytes	S: 1K	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200256b02000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200256b02000202bc\"]"]]																			
SYS	02	02	00	256b	02	0002	02bc	9579																													
DDC	01	02	00	256a	02	0002	00	9578	30	SG SG1	111 111 Vorlaufsolltemperatur	Normal	Temperatur	0,1 °C	2 Bytes	S: 1K	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200256a02000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200256a0200020258\"]"]]																			
SYS	02	02	00	256a	02	0002	0258	9578																													
DDC	01	02	00	2569	02	0002	00	9577	30	SG SG1	112 112 Vorlaufsolltemperatur	Absenken	Temperatur	0,1 °C	2 Bytes	S: 1K	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200256902000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200256902000201c2\"]"]]																			
SYS	02	02	00	2569	02	0002	01c2	9577																													
DDC	01	02	00	252e	02	0002	00	9516	10	SG SG1	113 113 Vorlaufsolltemperatur	Sonderniveau	Temperatur	0,1 °C	2 Bytes	S: 1K	s/30s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200252e02000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020200252e0200020190\"]"]]																			
SYS	02	02	00	252e	02	0002	0190	9516																													
DDC	01	01	00	2719	02	0002	00	10233	10	SG SG1	114 114 N1-Vorgabe über Ethernet	Prozent (0...100%)	0,01 %	2 Bytes	S: 0,1%	s/30s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010100271902000000\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02010027190200000001\"]"]]																				
SYS	05	01	00	2719	02	0002	0001	10233																													
DDC	01	02	00	2559	02	0002	00	9561	30	SG SG1	115 115 Vorlaufsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200255902000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02020025590200020007\"]"]]																				
SYS	02	02	00	2559	02	0002	0000	9561																													
DDC	01	02	00	2507	02	0002	00	9479	10	SG SG1	116 116 Vorlaufsttemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	s/30s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010200250702000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02020025070200020232\"]"]]																				
SYS	02	02	00	2507	02	0002	0232	9479																													
DDC	01	01	00	261f	02	0002	00	9759	10	SG SG1	117 117 Plattenwärmetauschertemperatur (B2)	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	s/30s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010100261f02000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020100261f0200028007\"]"]]																				
SYS	02	01	00	261f	02	0002	8000	9759																													
DDC	01	01	00	2560	02	0002	00	9568	30	SG SG1	118 118 Pufferspeicher Temperatur oben	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010100256002000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02010025600200020357\"]"]]																				
SYS	02	01	00	2560	02	0002	0235	9568																													
DDC	01	01	00	2561	02	0002	00	9569	30	SG SG1	119 119 Pufferspeicher Temperatur unten	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010100256102000200\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"02010025610200020213\"]"]]																				
SYS	02	01	00	2561	02	0002	0213	9569																													
DDC	01	01	00	263f	00	0008	00	9791	30	SG SG1	120 121 122 123	120 Can Open spezifisch			2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"010100263f0000080000000000000007\"]","12345678","SRC":"","SYS","CAPI","[\"NN\":1,\"N01\":[\"VG\":\"020100263f000008000000000000000007\"]"]]																				
SYS	02	01	00	263f	00	0008	00000000000000000000	9791																													

Tabelle1

SYS	01	01	00	26e4	02	0001	00		9956	60	SG	SG1	140	140 Folgewechsel	0: normal 1: invertiert 2: zeitlich 3: Betriebsstunden	Schalten	1 Byte	S	I≥10min	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","01010026e402000100"]			
																					["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","02010026e402000102"]		
DDC	01	01	00	26e6	02	0002	00		9958	60	SG	SG1	141	141 Wechsellzeit	Aktueller Wert	Zeit	1 h	2 Bytes	S: 1h	I≥10min	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","01010026e602000200"]		
SYS	02	01	00	26e6	02	0002	0032		9958												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","02010026e60200020032"]		
DDC	01	01	00	269e	02	0002	00		9982	10	SG	SG1	142	142 Kaskade	Abgleichtemperatur	Temperatur	0,1 °C	2 Bytes	s/30s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100269e02000200"]			
SYS	02	01	00	269e	02	0002	0000		9982												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020100269e0200020000"]		
DDC	01	01	00	261c	00	0002	00		9756	30	SG	SG1	143	143 Kaskade	Soll-Modulation System HZ	Prozent (0...255%)	0,01 %	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100261c00000200"]			
SYS	02	01	00	261c	00	0002	0000		9756												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020100261c0000020000"]		
DDC	01	01	00	261d	00	0002	00		9757	30	SG	SG1	144	144 Kaskade	Soll-Modulation System WW	Prozent (0...255%)	0,01 %	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100261d00000200"]			
SYS	02	01	00	261d	00	0002	0000		9757												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020100261d0000020000"]		
DDC	01	01	00	2612	00	0002	00		9746	30	SG	SG1	145	145 Kaskade	Sollwert System HZ	Temperatur	0,1 °C	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100261200000200"]			
SYS	02	01	00	2612	00	0002	01bd		9746												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020100261200000201bd"]		
DDC	01	01	00	2613	00	0002	00		9747	30	SG	SG1	146	146 Kaskade	Sollwert System WW	Temperatur	0,1 °C	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100261300000200"]			
SYS	02	01	00	2613	00	0002	0000		9747												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","02010026130000020000"]		
DDC	01	01	00	2562	02	0001	00		9570	10	SG	SG1	150	150, Uhrzeit	Aktuelle Uhrzeit	Tageszeit	2 Bytes	s/30s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100256202000100"]				
SYS	02	01	00	2562	02	0001	14		9570												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020100256202000114"]		
DDC	01	01	00	2562	03	0001	00		9570	10	SG	SG1	151								["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100256203000100"]		
SYS	02	01	00	2562	03	0001	37		9570												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020100256203000137"]		
DDC	01	01	00	2563	02	0001	00		9571	30	SG	SG1	153	153, Datum	Aktuelles Datum	Datum	3 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100256302000100"]				
SYS	02	01	00	2563	02	0001	1a		9571												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","02010025630200011a"]		
DDC	01	01	00	2563	03	0001	00		9571	30	SG	SG1	154								["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100256303000100"]		
SYS	02	01	00	2563	03	0001	02		9571												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020100256303000102"]		
DDC	01	01	00	2563	04	0001	00		9571	30	SG	SG1	155								["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010100256304000100"]		
SYS	02	01	00	2563	04	0001	17		9571												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020100256304000117"]		
																					7.5.4 WTC		
DDC	01	09	01	2639	00	0001	00		9785	10	WTC	WTC1	160	160 Betriebsphase WTC	0: Normalbetrieb 10: Pumpenachlauf 15: Brenneraktivierte Heizen 20: Sperre Mindest-heizleistung 24: Adaption Gastell-glied läuft 25: Verzögerter Heizbetrieb 30: Softstart Warm-wasser 35: Abregelunktion Fernsteuerung 40: Spreizung Vorlauf/Rücklauf 45: Spreizung Vorlauf/Rücklauf 50: Abregelunktion Abgastemperatur 55: Abschaltung Fernsteuerung 60: Abschaltung Mindestumlauf 70: SCOT Kalibration läuft	Schalten	1 Byte	s/30s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010901263900000100"]				
SYS	02	09	01	2639	00	0001	00		9785												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020901263900000100"]		
DDC	01	07	00	2541	00	0001	00		9537	10	WTC	WTC1	161	161 Betriebsphase Brenner	0: Brenner aus 1: Vorbeillüftung 2: Brenner ein: Steuerbetrieb 3: Brenner ein: Regelbetrieb 4: Nachbeillüftung	Schalten	1 Byte	s/30s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010700254100000100"]				
SYS	02	07	00	2541	00	0001	00		9537												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020700254100000100"]		
DDC	01	07	00	2545	00	0002	00		9541	30	WTC	WTC1	163	163 Vorlauf/solltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010700254500000200"]			
SYS	02	07	00	2545	00	0002	0050		9541												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","02070025450000020050"]		
DDC	01	07	00	2532	00	0002	00		9522	10	WTC	WTC1	164	164 Kesseltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes	s/30s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010700253200000200"]			
SYS	02	07	00	2532	00	0002	00aa		9522												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020700253200000200aa"]		
DDC	01	09	01	2613	02	0002	00		9747	30	WTC	WTC1	165	165 Volumenstrom VPT	Aktueller Wert	Durchfluss-menge	1 l/h	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010901261302000200"]			
SYS	02	09	01	2613	02	0002	0000		9747												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","02090126130200020000"]		
DDC	01	09	01	2614	02	0002	00		9748	30	WTC	WTC1	166	166 Anlagendruck	Aktueller Wert	Druck	0,01 bar	2 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010901261402000200"]			
SYS	02	09	01	2614	02	0002	007a		9748												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","0209012614020002007a"]		
DDC	01	07	00	2533	02	0002	00		9523	10	WTC	WTC1	167	nicht dokumentiert							["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010700253302000200"]		
SYS	02	07	00	2533	02	0002	00ad		9523												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020700253302000200ad"]		
DDC	01	07	00	2537	00	0002	00		9527	10	WTC	WTC1	168	nicht dokumentiert							["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010700253700000200"]		
SYS	02	07	00	2537	00	0002	00c4		9527												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020700253700000200c4"]		
DDC	01	09	01	2631	02	0004	00		9777	30	WTC	WTC1	170	170, Wärmeleistung VPT	Aktueller Wert	Leistung	0,01 kW	4 Bytes	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010901263102000400"]			
SYS	02	09	01	2631	02	0002	0000		9777												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","02090126310200020000"]		
DDC	01	09	01	2628	02	0004	00		9768	60	WTC	WTC1	172	172, Tageswärmemenge (Vortag)	Gesamt	Wirkarbeit	0,01 kWh	4 Bytes	I≥10min	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010901262802000400"]			
SYS	02	09	01	2628	02	0004	00000058e		9768												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020901262802000400000058e"]		
DDC	01	09	01	2626	02	0004	00		9766	60	WTC	WTC1	174	174, Tageswärmemenge (Vortag)	Heizbetrieb	Wirkarbeit	0,01 kWh	4 Bytes	I≥10min	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010901262602000400"]			
SYS	02	09	01	2626	02	0004	000000436		9766												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","0209012626020004000000436"]		
DDC	01	09	01	2627	02	0004	00		9767	60	WTC	WTC1	176	176, Tageswärmemenge (Vortag)	Warmwasserbetrieb	Wirkarbeit	0,01 kWh	4 Bytes	I≥10min	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010901262702000400"]			
SYS	02	09	01	2627	02	0004	000000158		9767												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","0209012627020004000000158"]		
DDC	01	02	01	2533	02	0001	00		9523	30	HK	HK2	1030	1030 Betriebsart Vorgabe	1: Standby 2: Zeitprogramm 1 3: Zeitprogramm 2 4: Zeitprogramm 3 5: Sommer 6: Komfort 7: Normal 8: Absenken	Schalten	1 Byte	S	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010201253302000100"]			
SYS	02	02	01	2533	02	0001	02		9523												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020201253302000102"]		
DDC	01	02	01	2582	02	0001	00		9602	30	HK	HK2	1031	1031 So/Wi Umschaltung	0: Aus 1: Ein	Boolesch	1 Byte	S	m/260s	["ID":"","12345678","SRC":"","DDC","CAP":"","NN":"","N01":"","VG":"","010201258202000100"]			
SYS	02	02	01	2582	02	0001	01		9602												["ID":"","12345678","SRC":"","SYS","CAP":"","NN":"","N01":"","VG":"","020201258202000101"]		
DDC	01	02	01	257e	04	0001	00		9598	30	HK	HK2	1032	1032 Betriebsart aktuell	1: System Standby 2: System Sommer 3: Estrich: Funktionsheizen 4: Estrich: Beleggriffheizen he								

7.5.1 EM-KA

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S/Cov	Aktualis.
0	Temperaturfühler an Anschluss T1	Kaskadengerät	Temperatur	0,1 °C	2 Bytes		m/≥60s
1	Temperaturfühler an Anschluss T2	Kaskadengerät	Temperatur	0,1 °C	2 Bytes		m/≥60s
2	PWM-Signal an Umwälzpumpe	Kaskadengerät	Prozent	1,00 %	1 Byte		m/≥60s

7.5.2 EM-Sol

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S /Cov	Aktualis.
20	Kollektortemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s
21	Speichertemperatur unten	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
22, 23	Solarertrag Gesamtzähler	Solarertrag	Wirkarbeit	0,01 kWh	4 Bytes		l/≥10min
24, 25	Solarertrag (heute)	Solarertrag	Wirkarbeit	0,01 kWh	4 Bytes		m/≥60s
26, 27	Solarertrag (Vortag)	Solarertrag	Wirkarbeit	0,01 kWh	4 Bytes		l/≥10min

7.5.3 SG

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S /Cov	Aktualis.
100	Betriebsart Heizkreis 1 Vorgabe	1: Standby 2: Zeitprogramm 1 3: Zeitprogramm 2 4: Zeitprogramm 3 5: Sommer 6: Komfort 7: Normal 8: Absenk	Schalten		1 Byte	S	m/≥60s
101	So/Wi Umschaltung Heizkreis 1	0: Aus 1: Ein	Boolesch		1 Byte	S	m/≥60s
102	Betriebsart Heizkreis 1 aktuell	1: System Standby 2: System Sommer 3: Estrich: Funktionsheizen 4: Estrich: Belegreifheizen 5: Urlaub 6: Zeitprogramm 1 7: Zeitprogramm 2 8: Zeitprogramm 3 9: Sommer 10: Absenk 11: Normal 12: Komfort 13: Standby	Schalten		1 Byte		m/≥60s
103	Status Heizkreis 1	1: Raumfrostschutz 2: Anlagenfrostschutz 16: Eingang H1: Sonder 17: Eingang H1: Komfort 18: Eingang H1: Normal 19: Eingang H1: Absenk 20: Eingang H1: Standby 21: Eingang H1: Not-Aus 24: Party 32: Optimierung 33: Niveauanhebung Außentemperatur 48: ext. Notabnahme 49: ext. Überangebot 50: ext. Heizvorgabe 51: Warmwasser-vorrang 64: Sommerbetrieb witterungsgeführt 65: Heizgrenze Raum 66: Heizgrenze VL 67: Raumthermostat 80: Komfort 81: Normal 82: Absenken 83: Frost 84: Frostschutz aktiv	Schalten		1 Byte		m/≥60s
106	Raumsolltemperatur	Komfort	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/≥60s
107	Raumsolltemperatur	Normal	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/≥60s
108	Raumsolltemperatur	Absenk	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/≥60s
109	Raumsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
110	Vorlaufsolltemperatur	Komfort	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
111	Vorlaufsolltemperatur	Normal	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
112	Vorlaufsolltemperatur	Absenk	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
113	Vorlaufsolltemperatur	Sonderniveau	Temperatur	0,1 °C	2 Bytes	S: 1K	s/≥30s
114	N1-Vorgabe über Ethernet		Prozent (0...100%)	0,01 %	2 Bytes	S: 0,1%	s/≥30s
115	Vorlaufsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
116	Vorlaufisttemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s
117	Plattenwärmetauschartemperatur (B2)	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s
118	Pufferspeicher Temperatur oben	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
119	Pufferspeicher Temperatur unten	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
120	Can Open spezifisch				2 Bytes		m/≥60s
121	Fehler/Warnung anstehend (Bit7...5 frei)	Bit15...8: >0 Fehler aktiv 0 Fehler inaktiv Bit4: 0 Modulfehler 1 Systemfehler Bit3...0: Fehlerart: 1 Fehler 2 Warnung 3 Info			2 Bytes		m/≥60s

122	Fehlernummer	Aktuelle Fehlernummer			2 Bytes		m/≥60s
123	Modul	Bit15...8: Modul-ID Bit7...0: Modul-Index			2 Bytes		m/≥60s
124	Systembetriebsart	1: Standby 2: Sommer 3: Automatik	Schalten		1 Byte	S	m/≥60s
125	Außentemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
126	Wärmeanforderung Heizung	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s
127	Wärmeanforderung Warmwasser	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s
130	Status Warmwasser	0: Warnung anstehend 1: Fehler anstehend	Boolesch		1 Byte		m/≥60s
131	Warmwasser-Push	Starten	Boolesch		1 Byte	S	s/≥30s
132	WWsolltemperatur Vorgabe	Normal	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
133	WWsolltemperatur Vorgabe	Absenk	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
134	WWsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
135	Warmwassertemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s
136	Rücklauftemperatur Zirkulation	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
137	Pumpe Warmwasser	0: Aus 1: Ein	Boolesch		1 Byte		s/≥30s
140	Folgewechsel	0: normal 1: invertiert 2: zeitlich 3: Betriebsstunden	Schalten		1 Byte	S	l/≥10min
141	Wechselzeit	Aktueller Wert	Zeit	1 h	2 Bytes	S: 1h	l/≥10min
142	Kaskade	Abgleichtemperatur	Temperatur	0,1 °C	2 Bytes		s/≥30s
143	Kaskade	Soll-Modulation System HZ	Prozent (0...255%)	0,01 %	2 Bytes		m/≥60s
144	Kaskade	Soll-Modulation System WW	Prozent (0...255%)	0,01 %	2 Bytes		m/≥60s
145	Kaskade	Sollwert System HZ	Temperatur	0,1 °C	2 Bytes		m/≥60s
146	Kaskade	Sollwert System WW	Temperatur	0,1 °C	2 Bytes		m/≥60s
150, 151	Uhrzeit	Aktuelle Uhrzeit	Tageszeit		2 Bytes		s/≥30s
153, 154, 155	Datum	Aktuelles Datum	Datum		3 Bytes		m/≥60s

7.5.4 WTC

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S/Cov	Aktualis.
160	Betriebsphase WTC	0: Normalbetrieb 10: Pumpennachlauf 15: Brennertaktsperre Heizen 20: Sperre Mindest-heizleistung 24: Adaption Gasstell-glied läuft 25: Verzögerter Heizbetrieb 30: Softstart Warm-wasser 35: Abregelfunktion Fernsteuerung 40: Spreizung Vorlauf/Abgas 45: Spreizung Vorlauf/Rücklauf 50: Abregelfunktion Abgastemperatur 55: Abschaltung Fernsteuerung 60: Abschaltung Mindestumlauf 70: SCOT Kalibration läuft	Schalten		1 Byte		s/≥30s
161	Betriebsphase Brenner	0: Brenner aus 1: Vorbelüftung 2: Brenner ein: Steuerbetrieb 3: Brenner ein: Regelbetrieb 4: Nachbelüftung	Schalten		1 Byte		s/≥30s
163	Vorlaufsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
164	Kesseltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s
165	Volumenstrom VPT	Aktueller Wert	Durchfluss- menge	1 l/h	2 Bytes		m/≥60s
166	Anlagendruck	Aktueller Wert	Druck	0,01 bar	2 Bytes		m/≥60s
170, 171	Wärmeleistung VPT	Aktueller Wert	Leistung	0,01 kW	4 Bytes		m/≥60s
172, 173	Tageswärmemenge (Vortag)	Gesamt	Wirkarbeit	0,01 kWh	4 Bytes		l/≥10min
174, 175	Tageswärmemenge (Vortag)	Heizbetrieb	Wirkarbeit	0,01 kWh	4 Bytes		l/≥10min
176, 177	Tageswärmemenge (Vortag)	Warmwasserbetrieb	Wirkarbeit	0,01 kWh	4 Bytes		l/≥10min

7.5.5 EM-HK

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S /Cov	Aktualis.
1030	Betriebsart Vorgabe	1: Standby 2: Zeitprogramm 1 3: Zeitprogramm 2 4: Zeitprogramm 3 5: Sommer 6: Komfort 7: Normal 8: Absenk	Schalten		1 Byte	S	m/≥60s
1031	So/Wi Umschaltung	0: Aus 1: Ein	Boolesch		1 Byte	S	m/≥60s
1032	Betriebsart aktuell	1: System Standby 2: System Sommer 3: Estrich: Funktionsheizen 4: Estrich: Belegreifheizen 5: Urlaub 6: Zeitprogramm 1 7: Zeitprogramm 2 8: Zeitprogramm 3 9: Sommer 10: Absenk 11: Normal 12: Komfort 13: Standby	Schalten		1 Bit		m/≥60s
1033	Status	1: Raumfrostschutz 2: Anlagenfrostschutz 16: Eingang H1: Sonder 17: Eingang H1: Komfort 18: Eingang H1: Normal 19: Eingang H1: Absenk 20: Eingang H1: Standby 21: Eingang H1: Not-Aus 24: Party 32: Optimierung 33: Niveauanhebung Außentemperatur 48: ext. Notabnahme 49: ext. Überangebot 50: ext. Heizvorgabe 51: Warmwasser-vorrang 64: Sommerbetrieb witterungsgeführt 65: Heizgrenze Raum 66: Heizgrenze VL 67: Raumthermostat 80: Komfort 81: Normal 82: Absenken 83: Frost 84: Frostschutz aktiv	Schalten		1 Byte		m/≥60s
1036	Raumsolltemperatur	Komfort	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/≥60s
1037	Raumsolltemperatur	Normal	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/≥60s
1038	Raumsolltemperatur	Absenk	Temperatur	0,1 °C	2 Bytes	S: 0,5K	m/≥60s
1039	Raumsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
1040	Vorlaufsolltemperatur	Komfort	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
1041	Vorlaufsolltemperatur	Normal	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
1042	Vorlaufsolltemperatur	Absenk	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
1043	Vorlaufsolltemperatur	Sonderniveau	Temperatur	0,1 °C	2 Bytes	S: 1K	s/≥30s
1045	Vorlaufsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
1046	Vorlaufisttemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s

7.5.6 EM-WW

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S /Cov	Aktualis.
1030	Status	0: Standby: inaktiv 1: Zeitprogramm – Normal 2: Zeitprogramm – Absenk 3: Warmwasser-ladung aktiv 4: Service 5: Übertemperatur Alternativenergie 6: Überschuss Alternativenergie 7: Akzeptanz WW Alternativenergie 8: Frostschutz 9: Standby durch Systemprogramm-schalter 10: Standby durch Eingang H2 12: Normal durch Eingang H2 13: Absenk durch Eingang H2	Schalten		1 Byte		m/≥60s
1031	Warmwasser-Push	Starten	Boolesch		1 Byte	S	s/≥30s
1032	WWsolltemperatur	Normal	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
1033	WWsolltemperatur	Absenk	Temperatur	0,1 °C	2 Bytes	S: 1K	m/≥60s
1034	WWsolltemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
1035	Warmwassertemperatur	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		s/≥30s
1036	Rücklauftemperatur Zirkulation	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
1037	Pumpe Warmwasser	0: Aus 1: Ein	Boolesch		1 Byte		s/≥30s

7.5.7 RF

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S /Cov	Aktualis.
1505	Raumtemperatur RF	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s

7.5.8 RG1

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S /Cov	Aktualis.
1505	Raumtemperatur RG1	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s

7.5.9 RG2

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S /Cov	Aktualis.
1505	Raumtemperatur RG2	Aktueller Wert	Temperatur	0,1 °C	2 Bytes		m/≥60s
1506	Raumfeuchte RG2	Aktueller Wert	Feuchte	0,1 %RH	2 Bytes		m/≥60s

7.5.10 Status Gateway

Reg.	Registername	Funktion	Datentyp	Auflösg.	Länge	S /Cov	Aktualis.
90	Kommunikation Gateway-WEM (Status Verbindung zu WEM)	Wert 0: verbunden Wert 1: unterbrochen	dreistellige Versions-nummer	1	2 Bytes		
91	Firmwareversion Gateway (5/5/6 bits für Modbus-Readout, z.B. v2.4.1)	Bit15...11: 1.Stelle Bit10...6: 2.Stelle Bit5...0: 3.Stelle		1			
92	WEM-Gerät erkannt (wenn Wert 1)	Bit0-7: WTC1-8 Bit14: WEM-Sol Bit15: WEM-KA					
93	WEM-Gerät erkannt (wenn Wert 1)	Bit0-11: WEM-EM HK 2-13					
94	WEM-Gerät erkannt (wenn Wert 1)	Bit0-11: WEM-EM WW 2-13					
95	WEM-Gerät erkannt (wenn Wert 1)	Bit0-11: WEM-RG1 1-12					
96	WEM-Gerät erkannt (wenn Wert 1)	Bit0-11: WEM-RG2 1-12					
97	WEM-Gerät erkannt (wenn Wert 1)	Bit0-11: WEM-RF 1-12					