mPower 411 series: register list for devices with KE firmware from V3.02 (check the installed version in your device's MENU in item INFO HW, SW)

Modbus address (dec)	Modbus address (hex)	Read coils (0x01)	Read holding registers (0x03)	Write single coil (0x05)	Write single register (0x06)	Write multiple registers (0x10)	Description	Access	Data type	Data length in bytes	Number of registers	Data	Example	Profibus slot	Profibus Index	Profinet Index (hex)	EtherCAT SDO/PDO?
0	0x0000		x				Device class	R	uint(16)	2	1		See programming guide in section "A"	1	0	0x0100	x
1	0x0001		x				Device type	R	char	40	20	ASCII	PSB 10080-1000	1	1	0x0101	x
21	0x0015		x				Manufacturer	R	char	40	20	ASCII		1	2	0x0102	x
41	0x0029		x				Manufacturer address	R	char	40	20	ASCII		1	3	0x0103	x
61	0x003D		x				Manufacturer ZIP code	R	char	40	20	ASCII		1	4	0x0104	x
81	0x0051		x				Manufacturer phone number	R	char	40	20	ASCII		1	5	0x0105	x
101	0x0065		x				Manufacturer website	R	char	40	20	ASCII		1	6	0x0106	x
121	0x0079		x				Nominal voltage	R	float	4	2	Floating point number IEEE754	80	1	7	0x0107	x
123	0x007B		x				Nominal current	R	float	4	2	Floating point number IEEE754	1000	1	8	0x0108	x
125	0x007D		x				Nominal power	R	float	4	2	Floating point number IEEE754	30000	1	9	0x0109	x
127	0x007F		x				Max. Internal resistance	R	float	4	2	Floating point number IEEE754	5	1	10	0x010A	x
129	0x0081		x				Min. Internal resistance	R	float	4	2	Floating point number IEEE754	0.003	1	11	0x010B	x
131	0x0083		x				Article no.	R	char	40	20	ASCII	30000801	1	12	0x010C	x
151	0x0097		x				Serial no.	R	char	40	20	ASCII	1234560001	1	13	0x010D	x
171	0x00AB		x			x	User text	RW	char	40	20	ASCII		1	14	0x010E	x
191	0x00BF		x				Firmware version (KE)	R	char	40	20	ASCII		1	15	0x010F	x
211	0x00D3		x				Firmware version (HMI)	R	char	40	20	ASCII		1	16	0x0110	x
231	0x00E7		x				Firmware version (DR)	R	char	40	20	ASCII		1	17	0x0111	x
402	0x0192	x		x			Remote mode	RW	uint(16)	2	1	Coil : Remote	0x0000 = off; 0xFF00 = on	2	1	0x0200	x
405	0x0195	x		x			DC output/input	RW	uint(16)	2	1	Coil : Output/input	0x0000 = off; 0xFF00 = on	2	4	0x0203	x
407	0x0197	x		x			Condition of DC output/input after power fail alarm	RW	uint(16)	2	1	Coil : Auto-On	0x0000 = off; 0xFF00 = auto	3	30	0x031C	x
408	0x0198		x		x		Condition of DC output/input after powering the device	RW	uint(16)	2	1	Reg : Power-On	0xFFFF = off; 0xFFFE = restore	2	6	0x0205	x
409	0x0199	x		x			Operation mode (UIP/UIR)	RW	uint(16)	2	1	Coil : Operation mode	0x0000 = UIP; 0xFF00 = UIR	2	7	0x0206	x
410	0x019A			x			Restart of the device (warm start)	W	uint(16)	2	1	Coil : Restart	0xFF00 = execute	2	8	0x0207	x
411	0x019B			x			Acknowledge alarms	W	uint(16)	2	1	Coil : Alarms	0xFF00 = acknowledge	2	9	0x0208	x
416	0x01A0	x		x			Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	Coil : VREF	0x0000 = 10V; 0xFF00 = 5V	2	14	0x020D	x
417	0x01A1	x		x			Analog interface: REM-SB level	RW	uint(16)	2	1	Coil : REM-SB Level	0x0000 = normal; 0xFF00 = inverted	2	36	0x0223	x
418	0x01A2			x			Analog interface: REM-SB action	RW	uint(16)	2	1	Coil : REM-SB Action	0x0000 = off; 0xFF00 = auto	2	37	0x0224	x
425	0x01A9	x		x			Condition of DC output/input after leaving remote	RW	uint(16)	2	1	Coil : Condition	0x0000 = off; 0xFF00 = unchanged	2	42	0x0229	x
427	0x01AB		x		x		Voltage Controller Speed	RW	uint(16)	2	1	Level	0x0000 = Normal (default); 0x0001 = Slow; 0x0002 = Fast;	2	60	0x023B	
428	0x01AC		x		x		SEMI F47	RW	uint(16)	2	1	On/Off	0x0000 = off; 0x0001 = on;	2	61	0x023C	
432	0x01B0	x		x			Reset device to factory settings	RW	uint(16)	2	1	Coil : Condition	0xFF00 = Trigger reset	2	43	0x022A	x
440	0x01B8		x		x		Analog interface: Pin 14 configuration	RW	uint(16)	2	1	Alarms 1	0x0000 = OVP (default); 0x0001 = OCP; 0x0002 = OPP; 0x0003 = OVP + OCP; 0x0004 = OVP + OPP; 0x0005 = OCP + OPP; 0x0006 = OVP + OCP + OPP	2	44	0x022B	x
441	0x01B9		x		x		Analog interface: Pin 6 configuration	RW	uint(16)	2	1	Alarms 2	0x0000 = OT + PF (default); 0x0001 = OT; 0x0002 = PF	2	45	0x022C	x
442	0x01BA		x		x		Analog interface: Pin 15 configuration	RW	uint(16)	2	1	Status DC / reg. mode	0x0000 = CV; 0x0001 = DC output status	2	46	0x022D	x
443	0x01BB		x		x		Analog interface: Pins 9 and 10 configuration	RW	uint(16)	2	1	Current and voltage monitor	0x0000 = Default (VMON on pin 9 and CMON on Pin 10 / Pin 10 signals current from source or sink); 0x0001 = Pin 10 (CMON) only signals sink current (EL); 0x0002 = Pin 10 (CMON) only signals source current (PS); 0x0003 = Current mode A [source current (PS) on pin 9 and sink current (EL) on pin 10 (full range)]; 0x0004 = Current mode B [source current (PS) on pin 10 and sink current (EL) on pin 9 (full range)]; 0x0005 = Pin 10 (CMON) signals EL/PS current (0...10 V ≡ -100%...0...100%, half range signal)	2	50	0x0231	x
498	0x01F2		x		x		Sink mode: Set power value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	21	0x0214	x
499	0x01F3		x		x		Sink mode: Set current value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	20	0x0213	x
500	0x01F4		x		x		Set voltage value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	23	0x0216	x
501	0x01F5		x		x		Source mode: Set current value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	24	0x0217	x
502	0x01F6		x		x		Source mode: Set power value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	25	0x0218	x
503	0x01F7		x		x		Source mode: Set resistance value	RW	uint(16)	2	1	variable - 0xD0E5 (x - 102%) The minimum percent value needs to be calculated from the rating, see technical specs	Resistance value (for translation see programming guide)	2	26	0x0219	x
504	0x01F8		x		x		Sink mode: Set resistance value	RW	uint(16)	2	1	variable - 0xD0E5 (x - 102%) The minimum percent value needs to be calculated from the rating, see technical specs	Resistance value (for translation see programming guide)	2	22	0x0215	x
505	0x01F8		x				Device state	R	uint(32)	4	2	Bit 0- 4: Control location	0x00 = free; 0x01 = local; 0x03 = USB; 0x04 = analog; 0x05 = Profibus; 0x06 = Ethernet; 0x08 = Master/Slave; 0x09 = RS232; 0x10 = CANopen; 0x12 = Modbus TCP 1P; 0x13 = Profinet 1P; 0x14 = Ethernet 1P; 0x15 = Ethernet 2P; 0x16 = Modbus TCP 2P; 0x17 = Profinet 2P; 0x18 = GPIB; 0x19 = CAN; 0x1A = EtherCAT; 0x1C = free (due to communication timeout (CTO))	2	27	0x021A	x
												Bit 6 : Master-slave type	0 = Slave; 1 = Master				
												Bit 7 : Output state	0 = off; 1 = on				
												Bit 9-10 : Regulation mode	00 = CV; 01 = CR; 10 = CC; 11 = CP				
												Bit 11 : Remote	0 = off; 1 = on				
												Bit 12 : PSB/PSBE operation mode	0 = source; 1 = sink				
												Bit 13 : Function generator	0 = stopped; 1 = running				
												Bit 14 : External sense	0 = off; 1 = on				
												Bit 15 : Alarms	0 = none; 1 = active				
												Bit 16 : OVP	0 = none; 1 = active				
												Bit 17 : OCP	0 = none; 1 = active				
												Bit 18 : OPP	0 = none; 1 = active				
												Bit 19 : OT	0 = none; 1 = active				
												Bit 21 : Power fail	0 = none; 1 = active				
												Bit 24 : UVD	0 = none; 1 = active				
												Bit 25 : OVD	0 = none; 1 = active				
												Bit 26 : UCD	0 = none; 1 = active				
												Bit 27 : OCD	0 = none; 1 = active				
												Bit 28 : OPD	0 = none; 1 = active				
												Bit 29 : MSP	0 = none; 1 = active				
												Bit 30 : REM-SB	0 = DC enabled; 1 = REM-SB disables power output				
												Bit 31 : OCP/OPP-OCD/OPD cause	0 = source mode; 1 = sink mode				
507	0x01FB		x				Actual voltage	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)	2	28	0x021B	x
508	0x01FC		x				Actual current	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)	2	29	0x021C	x
509	0x01FD		x				Actual power	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)	2	30	0x021D	x
511	0x01FF		x				Device state 2	R	uint(32)	4	2	Bit 1 : SF alarm	0 = none; 1 = active	2	19	0x0212	x
												Bit 4 : Power derating	0 = none; 1 = active				
												Bit 5 : Semi F47	0 = none; 1 = active				
520	0x0208		x				Count of OV alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	20	0x0312	x
521	0x0209		x				Source mode: Count of OC alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	21	0x0313	x
522	0x020A		x				Source mode: Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	22	0x0314	x
523	0x020B		x				Count of OT alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	23	0x0315	x
524	0x020C		x				Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	24	0x0316	x
525	0x020D		x				Sink mode: Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	25	0x0317	x
526	0x020E		x				Count of OP alarms since power up (PSB/PSBE devices: sink mode)	R	uint(16)	2	1	0x0000 - 0xFFFF		3	26	0x0318	x
527	0x020F		x				Count of SF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	27	0x0319	x
550	0x0226		x		x		Overvoltage protection threshold (OVP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OVP threshold (for translation see programming guide)	3	0	0x02FE	x
553	0x0229		x		x		Source mode: Overcurrent protection threshold (OCP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)	3	3	0x0301	x
556	0x022C		x		x		Source mode: Overpower protection threshold (OPP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)	3	6	0x0304	x
559	0x022F		x		x		Source mode: Undervoltage detection (UVD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	UVD threshold (for translation see programming guide)	3	9	0x0307	x
560	0x0230		x		x		Source mode: Adjustable UVD notification	RW	uint(16)	2	1	Adjustable UVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	10	0x0308	x
561	0x0231		x		x		Source mode: Overvoltage detection (OVD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OVD threshold (for translation see programming guide)	3	11	0x0309	x
562	0x0232		x		x		Source mode: Adjustable OVD notification	RW	uint(16)	2	1	Adjustable OVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	12	0x030A	x
563	0x0233		x		x		Source mode: Undercurrent detection (UCD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	UCD threshold (for translation see programming guide)	3	13	0x030B	x
564	0x0234		x		x		Source mode: Adjustable UCD notification	RW	uint(16)	2	1	Adjustable UCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	14	0x030C	x
565	0x0235		x		x		Source mode: Overcurrent detection (OCD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OCD threshold (for translation see programming guide)	3	15	0x030D	x
566	0x0236		x		x		Source mode: Adjustable OCD notification	RW	uint(16)	2	1	Adjustable OCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	16	0x030E	x
567	0x0237		x		x		Source mode: Overpower detection (OPD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OPD threshold (for translation see programming guide)	3	17	0x030F	x
568	0x0238		x		x		Source mode: Adjustable OPD notification	RW	uint(16)	2	1	Adjustable OPD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	18	0x0310	x
569	0x0239		x		x		Sink mode: Overcurrent protection threshold OCP	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)	3	4	0x0302	x
570	0x023A		x		x		Sink mode: Overpower protection threshold OPP	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)	3	7	0x0305	x
571	0x023B		x		x		Sink mode: Undercurrent detection UCD	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	UCD threshold (for translation see programming guide)	3	31	0x031D	x
572	0x023C		x		x		Sink mode: Adjustable UCD notification	RW	uint(16)	2	1	Adjustable UCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	32	0x031E	x
573	0x023D		x		x		Sink mode: Overcurrent detection OCD	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OCD threshold (for translation see programming guide)	3	33	0x031F	x
574	0x023E		x		x		Sink mode: Adjustable OCD notification	RW	uint(16)	2	1	Adjustable OCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	34	0x0320	x
575	0x023F		x		x		Sink mode: Overpower detection OPD	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OPD threshold (for translation see programming guide)	3	35	0x0321	x
576	0x0240		x		x		Sink mode: Adjustable OPD notification	RW	uint(16)	2	1	Adjustable OPD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	36	0x0322	x
577	0x0241		x		x		Condition of DC output/input after OT alarm	RW	uint(16)	2	1	Reg: Condition	0x0000 = off; 0x0001 = restore (default)	3	37	0x0323	
650	0x028A	x		x			Master-slave: Link mode on MS bus	RW	uint(16)	2	1	Coil: Mode	0x0000 = Slave; 0xFF00 = Master	4	0	0x03FD	x
653	0x028D	x		x			Master-slave: Enable MS	RW	uint(16)	2	1	Coil: MS on/off	0x0000 = off; 0xFF00 = on	4	3	0x0400	x
654	0x028E			x			Master-slave: Init MS	W	uint(16)	2	1	Coil: MS start init	0xFF00 = Start init	4	4	0x0401	x
655	0x028F		x		x		Master-slave: Condition	R	uint(16)	2	1	Reg: MS status	0x0000 = not initialised; 0x0001 = init running; 0x0003 = set defaults; 0x0004 = setup interface; 0x0005 = assignment; 0xFFFC = disrupted; 0xFFFD = different models detected, init not OK; 0xFFFE = error; 0xFFFF = init OK; 0xFFFB = Temination not OK	4	5	0x0402	x
656	0x0290		x				Master-slave: Total voltage in V	R	float	4	2	Floating point number IEEE754	80	4	6	0x0403	x
658	0x0292		x				Master-slave: Total current in A	R	float	4	2	Floating point number IEEE754	5000	4	7	0x0404	x
660	0x0294		x				Master-slave: Total power in W	R	float	4	2	Floating point number IEEE754	150000	4	8	0x0405	x
662	0x0296		x				Master-slave: Number of initialised slaves	R	uint(16)	2	1		1…63	4	9	0x0406	x
666	0x029A	x		x			Master-slave: Bus termination	RW	uint(16)	2	1	Coil : Termination	0x0000 = off; 0xFF00 = on	4	10	0x0407	x
667	0x029B	x		x			Master-slave: Bus bias	RW	uint(16)	2	1	Coil : BIAS	0x0000 = off; 0xFF00 = on	4	11	0x0408	x
850	0x0352	x		x			Function generator Arbitary: Start/stop	RW	uint(16)	2	1	Coil : Start/Stop	0x0000 = Stop; 0xFF00 = Start	5	0	0x04FC	x
851	0x0353	x		x			Function generator Arbitrary: Select U	RW	uint(16)	2	1	Coil : U	0x0000 = not assigned; 0xFF00 = Assign function to voltage	5	1	0x04FD	x
852	0x0354	x		x			Function generator Arbitrary: Select I	RW	uint(16)	2	1	Coil : I	0x0000 = not assigned; 0xFF00 = Assign function to current	5	2	0x04FE	x
856	0x0358	x		x			Function generator XY: Select mode	RW	uint(16)	2	1	Reg: Mode	0x0000 = deactivated 0x0001 = IU Source (Table 1 from 2600) 0x0002 = IU Sink (Table 2 from 40960) 0x0003 = IU (both tables) 0x0004 = Fuel cell (Table 1 from 2600) 0x0005 = PV A (Table 1 from 2600) 0x0006 = PV B (Table 2 from 40960)	5	14	0x050A	x
859	0x035B		x		x		Function generator Arbitrary: Start sequence	RW	uint(16)	2	1	0x0001…0x0063		5	9	0x0505	x
860	0x035C		x		x		Function generator Arbitrary: End sequence	RW	uint(16)	2	1	0x0001…0x0063		5	10	0x0506	x
861	0x035D		x		x		Function generator Arbitrary: Sequence cycles	RW	uint(16)	2	1	0x0000...0x03E7	0x0000 = infinite	5	11	0x0507	x
862	0x035E			x			Function generator Arbitrary: Submit settings (only required for CAN, CANopen, EtherCAT CoE)	W	uint(16)	2	1	Coil : Submit Arbitrary	0xFF00 = Submit settings				
900	0x035D		x			x	Function generator Arbitrary: Setup for sequence 1	RW	float	32	16	Bytes 0-3: Us/Is(AC) in V or A	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator	6	0	0x05FB	x
												Bytes 4-7: Ue/Ie(AC) in V or A					
												Bytes 8-11: fs(1/T) in Hz	Integer in IEEE754 format: 0...10000 Hz				
												Bytes 12-15: fe(1/T) in Hz	Integer in IEEE754 format: 0...10000 Hz				
												Bytes 16-19: Angle in degrees	Integer in IEEE754 format: 0°...359°				
												Bytes 20-23: Us/Is(DC) in V or A	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator				
												Bytes 24-27: Ue/Ie(DC) in V or A					
												Bytes 28-31: Sequence time in µs	Floating point number in IEEE754 format: 100 µs...36,000,000,000 µs				
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
2468	0x035D		x			x	Function generatorArbitrary: Setup for sequence 99	RW	float	32	16	Bytes 0-3: Us/Is(AC) in V or A	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator	6	98	0x065D	x
												Bytes 4-7: Ue/Ie(AC) in V or A					
												Bytes 8-11: fs(1/T) in Hz	Integer in IEEE754 format: 0...10000 Hz				
												Bytes 12-15: fe(1/T) in Hz	Integer in IEEE754 format: 0...10000 Hz				
												Bytes 16-19: Angle in degrees	Integer in IEEE754 format: 0°...359°				
												Bytes 20-23: Us/Is(DC) in V or A	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator				
												Bytes 24-27: Ue/Ie(DC) in V or A					
												Bytes 28-31: Sequence time in µs	Floating point number in IEEE754 format: 100 µs...36,000,000,000 µs				
2600	0x0A28		x			x	Function generator XY: Table 1 (PS), block 0	RW	uint(16)	32	16	IU mode: set current value for source mode (PS) (16 values block)	value = real set value of current * 0.8 / Inom * 32768	7	0	0x06FA	x
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
6680	0x1A18		x			x	Function generator XY: Table 1 (PS), block 255	RW	uint(16)	32	16	IU mode: set current value for source mode (PS) (16 values block)	value = real set value of current * 0.8 / Inom * 32768	7	255	0x07F9	x
9000	0x2328		x		x		Upper limit of voltage set value (U-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	31	0x021E	x
9001	0x2329		x		x		Lower limit of voltage set value (U-min)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	32	0x021F	x
9002	0x232A		x		x		Source mode: Upper limit of current set value (I-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	33	0x0220	x
9003	0x232B		x		x		Source mode: Lower limit of current set value (I-min)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	34	0x0221	x
9004	0x232C		x		x		Source mode: Upper limit of power set value (P-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	35	0x0222	x
9005	0x232D		x		x		Sink mode: Upper limit of power set value (P-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	36	0x0223	x
9006	0x232E		x		x		Source mode: Upper limit of resistance set value (R-max)	RW	uint(16)	2	1	variable - 0xD0E5 (x - 102%) The minimum percent value needs to be calculated from the rating, see technical specs	Resistance value (for translation see programming guide)	2	37	0x0224	x
9007	0x232F		x		x		Sink mode: Upper limit of resistance set value (R-max)	RW	uint(16)	2	1	variable - 0xD0E5 (x - 102%) The minimum percent value needs to be calculated from the rating, see technical specs	Resistance value (for translation see programming guide)	2	39	0x0226	x
9008	0x2330		x		x		Sink mode: Upper limit of current set value (I-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	40	0x0227	x
9009	0x2331		x		x		Sink mode: Lower limit of current set value (I-min)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	41	0x0228	x
10007	0x2717	x		x			Ethernet: TCP keep-alive timeout	RW	uint(16)	2	1	Coil: Keep-alive on/off	0x0000 = off; 0xFF00 = on				
10008	0x2718	x		x			Ethernet/Profinet/Modbus TCP: DHCP	RW	uint(16)	2	1	Coil: DHCP on/off	0x0000 = off; 0xFF00 = on				
10010	0x271A	x		x			Protocol: Modbus	RW	uint(16)	2	1	Coil: MODBUS on/off	0x0000 = off; 0xFF00 = on				
10011	0x271B	x		x			Protocol: SCPI	RW	uint(16)	2	1	Coil: SCPI on/off	0x0000 = off; 0xFF00 = on				
10012	0x271C	x		x			Restart interface card	RW	uint(16)	2	1	Coil: Restart	0xFF00 = Trigger restart				
10013	0x271D	x		x			Modbus specification compliance	RW	uint(16)	2	1	Coil: Mode	0x0000 = Limited (default); 0xFF00 = Full				
10020	0x2724		x				AnyBus module: Type	R	uint(16)	2	1	Reg: Type	0x0005 = Profibus				
													0x0009 = RS232				
													0x0010 = CANopen				
													0x0011 = Devicenet				
													0x0012 = Modbus-TCP 1P				
													0x0013 = Profinet 1P				
													0x0014 = Ethernet 1P				
													0x0015 = Ethernet 2P				
													0x0016 = Modbus-TCP 2P				
													0x0017 = Profinet 2P				
													0x0019 = CAN				
													0x001A = EtherCAT				
													0x00FF = no or unknown module plugged				
10021	0x2725		x				AnyBus module: Interface type	R	char	40	20	ASCII	"Profibus DPV1"				
10041	0x2739		x				AnyBus module: Version number	R	uint(8)	4	2						
10043	0x273B		x				AnyBus module: Serial number	R	uint(32)	4	2						
10251	0x280B		x		x		Profibus: Ident number	RW	uint(16)	2	1		0xA001	8	0	0x07F9	
10252	0x280C		x		x		Profibus/CANopen: Node address	RW	uint(16)	2	1		Profibus: 0-125 ; CANopen: 0-127	8	1	0x07FA	
10253	0x280D		x			x	Profibus/Profinet: User-defineable "Function tag"	RW	char	32	16	ASCII	"Test"	8	2	0x07FB	
10269	0x281D		x			x	Profibus/Profinet: User-defineable "Location tag"	RW	char	22	11	ASCII	"Test"	8	3	0x07FC	
10280	0x2828		x			x	Profibus/Profinet: User-defineable installation date	RW	char	40	20	ASCII	"13.01.2012 09:59:00"	8	4	0x07FD	
10300	0x283C		x			x	Profibus/Profinet: User-defineable description	RW	char	54	27	ASCII	"www.webpage.de"	8	5	0x07FE	
10354	0x2872		x			x	Profinet: User-defineable "Station name"	RW	char	200	100	ASCII	"Test"	8	6	0x07FF	
10502	0x2906		x			x	Ethernet/Modbus TCP: IP address	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.2 (default)				
10504	0x2908		x			x	Ethernet/Modbus TCP: Subnet mask	RW	uint(8)	4	2	Bytes 0-3: 0..255	255.255.255.0 (default)				
10506	0x290A		x			x	Ethernet/Modbus TCP: Gateway	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.1 (default)				
10508	0x290C		x			x	Ethernet/Profinet/Modbus TCP: Host name	RW	char	54	27	ASCII	"Client" (default)				
10535	0x2927		x			x	Ethernet/Profinet/Modbus TCP: Domain name	RW	char	54	27	ASCII	"Workgroup" (default)				
10562	0x2942		x			x	Ethernet/Modbus TCP: DNS 1	RW	uint(8)	4	2	Bytes 0-3: 0..255	0.0.0.0 (default)				
10564	0x2944		x			x	Ethernet/Modbus TCP: DNS 2	RW	uint(8)	4	2	Bytes 0-3: 0..255	0.0.0.0 (default)				
10566	0x2946		x		x		RS232/USB: Connection timeout in milliseconds	RW	uint(16)	2	1	5..65535	Default: 5ms				
10567	0x2947		x			(x)	Ethernet/Profinet/Modbus TCP: MAC	R	uint(8)	6	3	Bytes 0-5: 0..255	00:50:C2:C3:12:34 or 00-50-C2-C3-12-34				
10570	0x294A		x		x		Ethernet/Modbus TCP: Connection speed Port 1 (1 & 2 port modules)	RW	uint(16)	2	1	Connection speed	0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex; 0x0003 = 100Mbit half duplex; 0x0004 = 100Mbit full duplex				
10571	0x294B		x		x		Ethernet/Modbus TCP: Connection speed Port 2 (2 port module)	RW	uint(16)	2	1	Connection speed	0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex; 0x0003 = 100Mbit half duplex; 0x0004 = 100Mbit full duplex				
10572	0x294C		x		x		Ethernet (except for Modbus TCP): Port	RW	uint(16)	2	1	0..65535	5025 (default), except port 80				
10573	0x294D		x		x		Ethernet: TCP Socket timeout (in seconds)	RW	uint(16)	2	1	5..65535	0 = timeout inactive; 5 = 5 s (default)				
10700	0x29CC		x		x		RS232/CANopen/CAN: Baud rate	RW	uint(16)	2	1	Baud rate	CAN CANopen RS232 0x00: 10kbps 10kbps 2400 Bd 0x01: 20kbps 20kbps 4800 Bd 0x02: 50kbps 50kbps 9600 Bd 0x03: 100kbps 100kbps 19200 Bd 0x04: 125kbps 125kbps 38400 Bd 0x05: 250kbps 250kbps 57600 Bd 0x06: 500kbps 500kbps 115200 Bd 0x07: 1Mbps 800kbps - 0x08: - 1Mbps - 0x09: - Autobaud -				
10701	0x29CD	x		x			CAN: ID format	RW	uint(16)	2	1	Coil: Base/Extended	0x0000 = Base (11 Bit); 0xFF00 = Extended (29 Bit)				
10702	0x29CE	x		x			CAN: Termination	RW	uint(16)	2	1	Coil: Bus termination	0x0000 = off; 0xFF00 = on				
10704	0x29D0		x			x	CAN: Base ID	RW	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF	Default: 0x000				
10706	0x29D2		x			x	CAN: Broadcast ID	RW	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF	Default: 0x7FF				
10709	0x29D5	x		x			CAN: Data length	RW	uint(16)	2	1	Coil: Data length	0x0000 = Auto; 0xFF00 = Always 8 bytes				
10710	0x29D6		x			x	CAN: Cyclic read: Base ID	RW	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF	Default: 0x100				
10712	0x29D8		x			x	CAN: Cyclic send: Base ID	RW	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF	Default: 0x200				
10714	0x29DA		x		x		CAN: Cyclic read time (in ms): Status	RW	uint(16)	2	1	20…5000; 0 == off	Default: off				
10715	0x29DB		x		x		CAN: Cyclic read time (in ms): Set value (U, I, P, R)	RW	uint(16)	2	1	20…5000; 0 == off	Default: off				
10716	0x29DC		x		x		CAN: Cyclic read time (in ms): Limits 2 (P, R)	RW	uint(16)	2	1	20…5000; 0 == off	Default: off				
10717	0x29DD		x		x		CAN: Cyclic read time (in ms): Limits 1 (U, I)	RW	uint(16)	2	1	20…5000; 0 == off	Default: off				
10718	0x29DE		x		x		CAN: Cyclic read time (in ms): Actual values U, I, P	RW	uint(16)	2	1	20…5000; 0 == off	Default: off				
10721	0x29E1		x		x		CAN: Cyclic read time (in ms): Set value (I, P, R) (only PSB/PSBE devices, sink mode)	RW	uint(16)	2	1	20…5000; 0 == off	Default: off				
10722	0x29E2		x		x		CAN: Cyclic read time (in ms): Limits 3 (I, P, R) (only PSB/PSBE devices, sink mode)	RW	uint(16)	2	1	20…5000; 0 == off	Default: off				
10820	0x2A44		x				Internal Ethernet interface: Status	R	uint(16)	2	1	Bits 0-5: -					
												Bit 6: Keep-Alive	0 = inactiv; 1 = activ				
												Bit 7: DHCP 1	0 = DHCP deactivated; 1 = DHCP activated				
												Bit 8: DHCP 2	0 = DHCP is not running, IP has been not assigned; 1 = DHCP is running, IP has been assigned				
10821	0x2A45	x		x			Internal Ethernet interface: TCP keep-alive timeout	RW	uint(16)	2	1	Coil: Keep-alive on/off	0x0000 = off; 0xFF00 = on				
10822	0x2A46	x		x			Internal Ethernet interface: DHCP	RW	uint(16)	2	1	Coil: DHCP on/off	0x0000 = off; 0xFF00 = on				
10823	0x2A47		x			x	Internal Ethernet interface: IP address	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.2 (default)				
10825	0x2A49		x			x	Internal Ethernet interface: Subnet mask	RW	uint(8)	4	2	Bytes 0-3: 0..255	255.255.255.0 (default)				
10827	0x2A4B		x			x	Internal Ethernet interface: Gateway	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.1 (default)				
10829	0x2A4D		x			x	Internal Ethernet interface: Host name	RW	char	54	27	ASCII	"Client" (default)				
10856	0x2A68		x			x	Internal Ethernet interface: Domain name	RW	char	54	27	ASCII	"Workgroup" (default)				
10883	0x2A83		x			x	Internal Ethernet interface: DNS	RW	uint(8)	4	2	Bytes 0-3: 0..255	0.0.0.0 (default)				
10885	0x2A85		x				Internal Ethernet interface: MAC	R(W)	uint(8)	6	3	Bytes 0-5: 0..255	00:50:C2:C3:12:34 or 00-50-C2-C3-12-34				
10888	0x2A88		x		x		Internal Ethernet interface: Port	RW	uint(16)	2	1	0..65535	5025 (default), except port 80				
10889	0x2A89		x		x		Internal Ethernet interface: TCP Socket timeout (in seconds)	RW	uint(16)	2	1	5..65535 (0 = timeout inactive)	Default: 5				
11000	0x2AF8		x		x		MPP Tracking: MPP-Mode	RW	uint(16)	2	1	0..4	0 = off; 1 = MPP1; 2 = MPP2; 3 = MPP3; 4 = MPP4	9	0	0x08F8	x
11001	0x2AF9		x		x		MPP Tracking: Uoc (Setup)	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)	9	1	0x08F9	x
11002	0x2AFA		x		x		MPP Tracking: Isc (Setup)	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Current value in % of Inom (for translation see programming guide)	9	2	0x08FA	x
11003	0x2AFB		x		x		MPP Tracking: Umpp (Setup)	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)	9	3	0x08FB	x
11004	0x2AFC		x		x		MPP Tracking: Impp (Setup)	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Current value in % of Inom (for translation see programming guide)	9	4	0x08FC	x
11005	0x2AFD		x		x		MPP Tracking: Pmpp (Setup)	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Power value in % of Pnom (for translation see programming guide)	9	5	0x08FD	x
11006	0x2AFE		x		x		MPP Tracking: DeltaP (Setup)	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Power value in % of Pnom (for translation see programming guide)	9	6	0x08FE	x
11007	0x2AFF		x				MPP Tracking: Umpp (Result in MPP1/2/4)	R	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)	9	7	0x08FF	x
11008	0x2B00		x				MPP Tracking: Impp (Result in MPP1/2/4)	R	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Current value in % of Inom (for translation see programming guide)	9	8	0x0900	x
11009	0x2B01		x				MPP Tracking: Pmpp (Result in MPP1/2/4)	R	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Power value in % of Pnom (for translation see programming guide)	9	9	0x0901	x
11010	0x2B02	x		x			MPP Tracking: Start/Stop	RW	uint(16)	2	1	Coil: Start/Stop	0x0000 = stop; 0xFF00 = start	9	10	0x0902	x
11011	0x2B03	x					MPP Tracking: Finished (Function status for MPP1/2/4)	R	uint(16)	2	1	Coil: Status	0x0000 = running; 0xFF00 = finished	9	11	0x0903	x
11012	0x2B04	x					MPP Tracking: Error during function	R	uint(16)	2	1	Coil: Error	0x0000 = no error; 0xFF00 = error	9	12	0x0904	x
11013	0x2B05		x		x		MPP-Tracking : Interval (Setup)	RW	uint(16)	2	1	0x0005 – 0xEA60	Regulation & measuring interval in milliseconds, either for tracking in modes 1 and 2 or for user curve progression in mode 3	9	13	0x0905	x
11014	0x2B06		x		x		MPP4 : Start	RW	uint(16)	2	1	0x0001 - 0x0064	Start voltage value out of 100 (related to registers 11100-11199) for use in MPP4 mode	9	14	0x0906	x
11015	0x2B07		x		x		MPP4 : End	RW	uint(16)	2	1	0x0001 - 0x0064	End voltage value out of 100 (related to registers 11100-11199) for use in MPP4 mode	9	15	0x0907	x
11016	0x2B08		x		x		MPP4 : Repetitions	RW	uint(16)	2	1	0x0000 - 0xFFFF	0x0000 = no repetitions	9	16	0x0908	x
11100	0x2B5C		x			x	MPP Tracking: User curve (MPP4 mode) voltage values 1-20	RW	uint(16)	40	20	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)	9	17	0x0909	x
11120	0x2B70		x			x	MPP Tracking: User curve (MPP4 mode) voltage values 21-40	RW	uint(16)	40	20	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)	9	18	0x090A	x
11140	0x2B84		x			x	MPP Tracking: User curve (MPP4 mode) voltage values 41-60	RW	uint(16)	40	20	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)	9	19	0x090B	x
11160	0x2B98		x			x	MPP Tracking: User curve (MPP4 mode) voltage values 61-80	RW	uint(16)	40	20	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)	9	20	0x090C	x
11180	0x2BAC		x			x	MPP Tracking: User curve (MPP4 mode) voltage values 81-100	RW	uint(16)	40	20	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)	9	21	0x090D	x
11200	0x2BC0		x				MPP Tracking: User curve (MPP4 mode) results 1-10 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	22	0x090E	x
11230	0x2BDE		x				MPP Tracking: User curve (MPP4 mode) results 11-20 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	23	0x090F	x
11260	0x2BFC		x				MPP Tracking: User curve (MPP4 mode) results 21-30 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	24	0x0910	x
11290	0x2C1A		x				MPP Tracking: User curve (MPP4 mode) results 31-40 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	25	0x0911	x
11320	0x2C38		x				MPP Tracking: User curve (MPP4 mode) results 41-50 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	26	0x0912	x
11350	0x2C56		x				MPP Tracking: User curve (MPP4 mode) results 51-60 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	27	0x0913	x
11380	0x2C74		x				MPP Tracking: User curve (MPP4 mode) results 61-70 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	28	0x0914	x
11410	0x2C92		x				MPP Tracking: User curve (MPP4 mode) results 71-80 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	29	0x0915	x
11440	0x2CB0		x				MPP Tracking: User curve (MPP4 mode) results 81-90 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	30	0x0916	x
11470	0x2CCE		x				MPP Tracking: User curve (MPP4 mode) results 91-100 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	9	31	0x0917	x
11500	0x2CEC		x			x	Battery discharge test (static): Max. current	RW	float	4	2	Floating point number IEEE754	0 - rated current	11	0	0x0AF6	x
11502	0x2CEE		x			x	Battery discharge test (static): Max. power	RW	float	4	2	Floating point number IEEE754	0 - rated power	11	1	0x0AF7	x
11504	0x2CF0		x			x	Battery discharge test (static): Max. resistance	RW	float	4	2	Floating point number IEEE754	Min. - max. resistance, 0 = OFF	11	2	0x0AF8	x
11506	0x2CF2		x			x	Battery discharge test (static): Discharge voltage	RW	float	4	2	Floating point number IEEE754	0 - rated voltage	11	3	0x0AF9	x
11508	0x2CF4		x			x	Battery discharge test (static): Max. capacity to discharge	RW	float	4	2	Floating point number IEEE754	0 - 99999.99	11	4	0x0AFA	x
11510	0x2CF6		x			x	Battery discharge test (static): Max. discharge time	RW	uint(32)	4	2	0x00000000 - 0x000A0000 (0 - 10 h)	0x00010203 = 01:02:03 as HH:MM:SS, equivalent to [00][HRS][MIN][SEC]	11	5	0x0AFB	x
11512	0x2CF8		x		x		Battery discharge test (static): Action upon reaching the max. discharge capacity	RW	uint(16)	2	1	Action when reaching max. discharge capacity	0x0000 = Do nothing; 0x0001 = Signal (see register 11544); 0x0002 = Stop test	11	6	0x0AFC	x
11513	0x2CF9		x		x		Battery discharge test (static): Action upon reaching the max. discharge time	RW	uint(16)	2	1	Action upon reaching the max. discharge time	0x0000 = Do nothing; 0x0001 = Signal (see register 11544); 0x0002 = Stop test	11	7	0x0AFD	x
11514	0x2CFA		x			x	Battery discharge test (dynamic): Current level 1	RW	float	4	2	Floating point number IEEE754	0 - rated current	11	8	0x0AFE	x
11516	0x2CFC		x			x	Battery discharge test (dynamic): Current level 2	RW	float	4	2	Floating point number IEEE754	0 - rated current	11	9	0x0AFF	x
11518	0x2CFE		x			x	Battery discharge test (dynamic): Time of current level 1	RW	float	4	2	Floating point number IEEE754	1 - 36000 s	11	10	0x0B00	x
11520	0x2D00		x			x	Battery discharge test (dynamic): Time of current level 2	RW	float	4	2	Floating point number IEEE754	1 - 36000 s	11	11	0x0B01	x
11522	0x2D02		x			x	Battery discharge test (dynamic): Max. power	RW	float	4	2	Floating point number IEEE754	0 - rated power	11	12	0x0B02	x
11524	0x2D04		x			x	Battery discharge test (dynamic): Discharge voltage	RW	float	4	2	Floating point number IEEE754	0 - rated voltage	11	13	0x0B03	x
11526	0x2D06		x			x	Battery discharge test (dynamic): Max. capacity to discharge	RW	float	4	2	Floating point number IEEE754	0 - 99999.99	11	14	0x0B04	x
11528	0x2D08		x			x	Battery discharge test (dynamic): Max. discharge time	RW	uint(32)	4	2	0x00000000 - 0x000A0000 (0 - 10 h)	0x00010203 = 01:02:03 as HH:MM:SS, equivalent to [00][HRS][MIN][SEC]	11	15	0x0B05	x
11530	0x2D0A		x		x		Battery discharge test (dynamic): Action upon reaching the max. discharge capacity	RW	uint(16)	2	1	Action	0x0000 = Do nothing; 0x0001 = Signal (see register 11544); 0x0002 = Stop test	11	16	0x0B06	x
11531	0x2D0B		x		x		Battery discharge test (dynamic): Action upon reaching the max. discharge time	RW	uint(16)	2	1	Action	0x0000 = Do nothing; 0x0001 = Signal (see register 11544); 0x0002 = Stop test	11	17	0x0B07	x
11532	0x2D0C	x		x			Battery test: Start/stop	RW	uint(16)	2	1	Coil: Start/Stop	0x0000 = Stop; 0xFF00 = Run	11	18	0x0B08	x
11535	0x2D0F		x		x		Battery test: Mode selection	RW	uint(16)	2	1	Mode selection	0x0000 = Battery test mode off (default); 0x0001 = Static discharge; 0x0002 = Pulsed discharge; 0x0003 = Static charge; 0x0004 = Dynamic test	11	21	0x0B0B	x
11536	0x2D10		x			x	Battery test: Discharged capacity in Ah	RW	float	4	2	x Ah	10.5 Ah	11	22	0x0B0C	x
11538	0x2D12		x			x	Battery test: Discharged energy in Wh	RW	float	4	2	x Wh	23453.5 Wh	11	23	0x0B0D	x
11540	0x2D14		x				Battery test: Time at end of test	RW	uint(16)	8	4	HH:MM:SS.MS	Word 0 = Hours (0-10) Word 1 = Minutes (0-59) Word 2 = Seconds (0-59) Word 3 = Milliseconds (0-999)	11	24	0x0B0E	x
11544	0x2D18		x				Battery test: Status	R	uint(16)	2	1	#BEZUG!	0 = none; 1 = active	11	25	0x0B0F	x
												Bit 0 : Running	0 = none; 1 = active				
												Bit 1 : Finished	0 = none; 1 = active				
												Bit 2 : Error occurred	0 = none; 1 = active				
												Bit 3 : Initalized	0 = none; 1 = active				
												Bit 4 : Maximum Ah reached (signal only)	0 = none; 1 = active				
												Bit 5 : Maximum time reached (signal only)	0 = none; 1 = active				
												Bit 6 : Maximum Ah reached (end of test)	0 = none; 1 = active				
												Bit 7 : Maximum time reached (end of test)	0 = none; 1 = active				
												Bit 8 : Charging	0 = none; 1 = active				
												Bit 9 : Discharging	0 = none; 1 = active				
												Bit 10 : Resting	#BEZUG!				
11545	0x2D19		x			x	Battery charge test (static): Max. Voltage	RW	float	4	2	Floating point number IEEE754	0 - rated voltage	11	26	0x0B10	x
11547	0x2D1B		x			x	Battery charge test (static): Charge current	RW	float	4	2	Floating point number IEEE754	0 - rated current	11	27	0x0B11	x
11551	0x2D1F		x			x	Battery charge test (static): Charge current	RW	float	4	2	Floating point number IEEE754	0 - rated current	11	29	0x0B13	x
11553	0x2D21		x			x	Battery charge test (static): Max. capacity to charge	RW	float	4	2	Floating point number IEEE754	0 - 99999.99	11	30	0x0B14	x
11555	0x2D23		x			x	Battery charge test (static): Max. charge time	RW	uint(32)	4	2	0x00000000 - 0x000A0000 (0 - 10 h)	0x00010203 = 01:02:03 as HH:MM:SS, equivalent to [00][SEK][MIN][STD]	11	31	0x0B15	x
11557	0x2D25		x		x		Battery charge test (static): Action upon reaching the max. capacity	RW	uint(16)	2	1	Action	0x0000 = Do nothing; 0x0001 = Signal (see register 11544); 0x0002 = Stop test	11	32	0x0B16	x
11558	0x2D26		x		x		Battery charge test (static): Action upon reaching the max. charge time	RW	uint(16)	2	1	Action	0x0000 = Do nothing; 0x0001 = Signal (see register 11544); 0x0002 = Stop test	11	33	0x0B17	x
11559	0x2D27		x			x	Battery dynamic test (charge): Charge voltage	RW	float	4	2	Floating point number IEEE754	0 - rated voltage	11	34	0x0B18	x
11561	0x2D29		x			x	Battery dynamic test (charge): Charge current	RW	float	4	2	Floating point number IEEE754	0 - rated current	11	35	0x0B19	x
11565	0x2D2D		x			x	Battery dynamic test (charge): Charge end current	RW	float	4	2	Floating point number IEEE754	0 - rated current	11	37	0x0B1B	x
11567	0x2D2F		x			x	Battery dynamic test (charge): Charge duration	RW	float	4	2	Floating point number IEEE754	1 - 36000 s	11	38	0x0B1C	x
11569	0x2D31		x			x	Battery dynamic test (discharge): Discharge current	RW	float	4	2	Floating point number IEEE754	0 - rated current	11	39	0x0B1D	x
11571	0x2D33		x			x	Battery dynamic test (discharge): Discharge end voltage	RW	float	4	2	Floating point number IEEE754	0 - rated voltage	11	40	0x0B1E	x
11573	0x2D35		x			x	Battery dynamic test (discharge): Discharge duration	RW	float	4	2	Floating point number IEEE754	1 - 36000 s	11	41	0x0B1F	x
11575	0x2D37		x			x	Battery dynamic test: Max. charge/discharge capacity	RW	float	4	2	Floating point number IEEE754	0 - 99999.99	11	42	0x0B20	x
11577	0x2D39		x			x	Battery dynamic test: Max. time	RW	uint(32)	4	2	0x00000000 - 0x000A0000 (0 - 10 h)	0x00010203 = 01:02:03 as HH:MM:SS, equivalent to [00][SEK][MIN][STD]	11	43	0x0B21	x
11579	0x2D3B		x		x		Battery dynamic test: Action upon reaching the max. capacity	RW	uint(16)	2	1	Action	0x0000 = Do nothing; 0x0001 = Signal (see register 11544); 0x0002 = Stop test	11	44	0x0B22	x
11580	0x2D3C		x		x		Battery dynamic test: Action upon reaching the max. time	RW	uint(16)	2	1	Action	0x0000 = Do nothing; 0x0001 = Signal (see register 11544); 0x0002 = Stop test	11	45	0x0B23	x
11581	0x2D3D		x		x		Battery dynamic test: Start with discharging or charging phase	RW	uint(16)	2	1	Start with	0x0001 = Discharging; 0x0000 = Charging	11	46	0x0B24	x
11582	0x2D3E		x			x	Battery dynamic test: Pause time between operations	RW	float	4	2	Floating point number IEEE754	1 - 36000 s	11	47	0x0B25	x
11584	0x2D40		x		x		Battery dynamic test: Cycles	RW	uint(16)	2	1	Number	0 = Infinite; 1-999	11	48	0x0B26	x
12000	0x2EE0	x		x			Function generator PV: Start/Stop	RW	uint(16)	2	1	Coil: Start/Stop	0x0000 = Stop; 0xFF00 = Start	10	0	0x09F7	x
12001	0x2EE1		x		x		Function generator PV: Simulation mode	RW	uint(16)	2	1	Mode	0x0000 = off; 0x0001 = Irradiation/temperature; 0x0002 = Umpp/Impp; 0x0003 = Daily trend irradiation/temp.; 0x0004 = Daily trend Umpp/Impp	10	1	0x09F8	x
12002	0x2EE2		x				Function generator PV: MPP Voltage	R	uint(16)	2	1	0x0000 - 0xCCCC	MPP voltage (for translation see programming guide)	10	2	0x09F9	x
12003	0x2EE3		x				Function generator PV: MPP Current	R	uint(16)	2	1	0x0000 - 0xCCCC	MPP current (for translation see programming guide)	10	3	0x09FA	x
12004	0x2EE4		x				Function generator PV: MPP Power	R	uint(16)	2	1	0x0000 - 0xCCCC	MPP power (for translation see programming guide)	10	4	0x09FB	x
12005	0x2EE5	x		x			Function generator PV: Interpolation	RW	uint(16)	2	1	Coil: Interpolation	0x0000 = off; 0xFF00 = on	10	5	0x09FC	x
12006	0x2EE6	x		x			Function generator PV: Day trend (mode)	RW	uint(16)	2	1	Coil: Mode	0x0000 = read only; 0xFF00 = write	10	6	0x09FD	x
12007	0x2EE7			x			Function generator PV: Day trend (clear completely)	W	uint(16)	2	1	Coil: Clear	0xFF00 = clear	10	7	0x09FE	x
12008	0x2EE8		x			x	Function generator PV: Day trend (index)	RW	uint(32)	4	2	1…100000	0x00001 = Index 1	10	8	0x09FF	x
12010	0x2EEA		x			x	Function generator PV: Day trend index data	RW	)	12	6	Byte 0-3: Index [0x00000001…0x000186A0] Byte 4-5: E or U-MPP [0x0000…0xCCCC] Byte 6-7: Temp. ϑ or I-MPP [0x0000…0xCCCC] Byte 8-11: ∆t in [ms] 500...1800000	Currently selected index Irradiation or U-MPP (for translation see register 12053) or U-MPP (for translation see programming guide) Module temperature (for translation see register 12052) or I-MPP (for translation see programming guide) Dwelltime of index	10	9	0x0A00	x
12016	0x2EF0		x		x		Function generator PV: Technology	RW	uint(16)	2	1	Technology	0x0000 = Manual; 0x0001 = cSI technology; 0x0002 = Thin film technology	10	10	0x0A01	x
12017	0x2EF1	x		x			Function generator PV: Input mode	RW	uint(16)	2	1	Coil: Mode	0x0000 = MPP; 0xFF00 = ULIK	10	11	0x0A02	x
12018	0x2EF2	x		x			Function generator PV: Activate data recording	RW	uint(16)	2	1	Coil: Record	0x0000 = halt; 0xFF00 = continue	10	12	0x0A03	x
12019	0x2EF3			x			Function generator PV: Clear recorded data	W	uint(16)	2	1	Coil: Clear	0xFF00 = clear	10	13	0x0A04	x
12020	0x2EF4		x				Function generator PV: Actual record count	R	uint(32)	4	2	0x00000000...0x0008CA00	0x0000000F = 15 recorded values	10	14	0x0A05	x
12022	0x2EF6		x			x	Function generator PV: Record index	RW	uint(32)	4	2	0x00000001...0x0008CA00	0x0008CA00 = Index 576,000 (highest possible index)	10	15	0x0A06	x

12024	0x2EF8		x				Function generator PV: Data set	R		16	8	Byte 0-3:Actual index [0x00000001...0x0008CA00] Byte 4-5: U_ist [0x0000…0xCCCC] Byte 6-7: I_ist [0x0000…0xCCCC] Byte 8-9: P_ist [0x0000…0xCCCC] Byte 10-11: U_mpp [0x0000…0xCCCC] Byte 12-3: I_mpp [0x0000…0xCCCC] Byte 14-15: P_mpp [0x0000…0xCCCC]	Actual index Actual voltage Actual current Actual power MPP voltage MPP current MPP power	10	16	0x0A07	x
12032	0x2F00		x				Function generator PV: Open circuit voltage	R	uint(16)	2	1	0x0000...0xCCCC	Open circuit voltage (for translation see programming guide)	10	17	0x0A08	x
12033	0x2F01		x				Function generator PV: Short-circuit current	R	uint(16)	2	1	0x0000...0xCCCC	Short circuit current (for translation see programming guide)	10	18	0x0A09	x
12034	0x2F02		x			x	Function generator PV: Fill factor (voltage)	RW	float	4	2	FFu, >0…1	Floating point number in IEEE754 format	10	20	0x0A0B	x
12036	0x2F04		x			x	Function generator PV: Fill factor (current)	RW	float	4	2	FFi, >0…1	Floating point number in IEEE754 format	10	22	0x0A0D	x
12038	0x2F06		x			x	Function generator PV: Temperature coefficient for Isc (Technology parameter)	RW	float	4	2	α in 1/°C; values >0…1	Floating point number in IEEE754 format	10	23	0x0A0E	x
12040	0x2F08		x			x	Function generator PV: Temperature coefficient for Uoc (Technology parameter)	RW	float	4	2	β in 1/°C; values <0…-1	Floating point number in IEEE754 format	10	24	0x0A0F	x
12042	0x2F0A		x			x	Function generator PV: Correction factor Cu(Technology parameter)	RW	float	4	2	Cu without unit; values > 0 … 1,0 [cSI: 0.08593; Thinfilm: 0.08419]	Floating point number in IEEE754 format	10	26	0x0A11	x
12044	0x2F0C		x			x	Function generator PV: Correction factor Cr (Technology parameter)	RW	float	4	2	Cr in m²/W; values > 0…1 [cSI: 0.0001088; thin film: 0.0001476]	Floating point number in IEEE754 format	10	28	0x0A13	x
12046	0x2F0E		x			x	Function generator PV: Correction factor Cg/Es (Technology parameter)	RW	float	4	2	Cg in W/m²; values > 0 … 1 [cSI: 0.002514; thin film: 0.001252]	Floating point number in IEEE754 format	10	30	0x0A15	x
12048	0x2F10		x		x		Function generator PV: Open circuit voltage STC (Standard Test condition)	RW	uint(16)	2	1	0x0000 - 0xCCCC	Open circuit voltage (for translation see programming guide)	10	31	0x0A16	x
12049	0x2F11		x		x		Function generator PV: Short circuit current STC	RW	uint(16)	2	1	0x0000 - 0xCCCC	Short circuit current (for translation see programming guide)	10	32	0x0A17	x
12050	0x2F12		x		x		Function generator PV: MPP Voltage STC	RW	uint(16)	2	1	0x0000 - 0xCCCC	MPP voltage (for translation see programming guide)	10	33	0x0A18	x
12051	0x2F13		x		x		Function generator PV: MPP current STC	RW	uint(16)	2	1	0x0000 - 0xCCCC	MPP current (for translation see programming guide)	10	34	0x0A19	x
12052	0x2F14		x		x		Function generator PV: Module temperature	RW	uint(16)	2	1	ϑmodule in °C; 0x0000…0xCCCC corresponds to -40…8	Module temperature (translation: value = [real value+40]/120*52428)	10	35	0x0A1A	x
12053	0x2F15		x		x		Function generator PV: Irradiation	RW	uint(16)	2	1	E in W/m²; 0x0000…0xCCCC corresponds to 0-1500 W/m	Irradiation (translation: value = real value/1500*52428)	10	36	0x0A1B	x
12054	0x2F16		x				Function generator PV: Status	R	uint(16)	2	1	Status code of PV simulation	0x0000 = Stop; 0x0001 = Run; 0x0002 = Stopped, mode fault; 0x0003 = Stopped, day trend fault; 0x0004 = Stopped, alarm; 0x0005 = Stopped, interpolation fault; 0xFFFF = PV not activ	10	37	0x0A1C	x
12055	0x2F17		x				Function generator PV: Actual day data count	R	uint(32)	4	2	0x00000000…0x000186A0	0x0000000F = 15 data samples written	10	38	0x0A1D	x
21000	0x5208		x				Operation counter: total time	R	uint(16)	6	3	DDDDD:HH:MM	Word 0 = Days (0-65535) Word 1 = Hours (0-23) Word 2 = Minutes (0-59)	2	53	0x0234	-
21003	0x520B		x				Operation counter: DC on time	R	uint(16)	6	3	DDDDD:HH:MM	Word 0 = Days (0-65535) Word 1 = Hours (0-23) Word 2 = Minutes (0-59)	2	54	0x0235	-
21006	0x520E		x				Operation counter: DC off time	R	uint(16)	6	3	DDDDD:HH:MM	Word 0 = Days (0-65535) Word 1 = Hours (0-23) Word 2 = Minutes (0-59)	2	55	0x0236	-
21009	0x5211		x				Operation counter: Energy in kWh (PSB/PSBE: source mode)	R	float	4	2	Floating point number IEEE754		2	56	0x0237	-
21011	0x5213		x				Operation counter: Capacity in Ah (PSB/PSBE: source mode)	R	float	4	2	Floating point number IEEE755		2	57	0x0238	-
21013	0x5215		x				Operation counter: Secondary energy in kWh (PSB/PSBE sink mode only)	R	float	4	2	Floating point number IEEE756		2	58	0x0239	-
21015	0x5217		x				Operation counter: Secondary capacity in Ah (PSB/PSBE sink mode only)	R	float	4	2	Floating point number IEEE757		2	59	0x023A	-

40960	0xA000		x			x	Function generator XY: Table 2 (EL), block 0	RW	uint(16)	32	16	IU mode: Current set value FC or Battery mode: Voltage set value (Block of 16 values)	value = real set value of voltage * 0.8 / Unom * 32768 or value = real set value of current * 0.8 / Inom * 32768	12	0	0x0BF5	-
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
45040	0xAFF0		x			x	Function generator XY: Table 2 (EL), block 255	RW	uint(16)	32	16	IU mode: Current set value FC or Battery mode: Voltage set value (Block of 16 values)	value = real set value of voltage * 0.8 / Unom * 32768 or value = real set value of current * 0.8 / Inom * 32768	12	255	0x0CF4	-