bus address	ત્રead coris (0x01) Read holding registers (0x(	e single coil (0x05)	te single register (0x06)		2.	Data type	a length in bytes	nber of registers			Profibus slot / Profinet subslot	
0 1 21 41 61	x x x x x x x		Write	Description  Device class  Device type  Manufacturer  Manufacturer address  Manufacturer ZIP code	R R POCCESS	uint(16 strin strin strin strin	g 40 g 40 g 40	0 20 20 20 20 20 20	Data  ASCII ASCII ASCII ASCII ASCII ASCII	Example 20, 32, 34, 36 = ELR 9000 39 = EL 9000 B ELR 9080-170	L L	1 1 1 1 1
81 01 21 23 25	x x x x			Manufacterer phone number Manufacturer website Nominal voltage Nominal current Nominal power Max. Internal resistance	R R R R R R	string string floa floa floa floa	g 40 at 4 at 4	20 4 2 4 2 4 2	ASCII Floating point number IEEE754	80 170 3500 12	1 1 1 1 1	1 1 1 1 1
29 31 51 71 91	x x x x			Min. Internal resistance Article no. Serial no. User tot Firmware version (KE)	R R R RW	strin strin strin strin	at 4 g 40 g 40 g 40 g 40	4 2 0 20 0 20 0 20 0 20	Floating point number IEEE754 ASCII ASCII ASCII ASCII ASCII	0.005 33230401 100010002 V2.01 05.09.2012	1 1 1	1 1 1 1
_	x x x x	x x		Firmware version (+MI) Firmware version (DR)  Remote mode DC input Condition of DC input after power fail alarm	R R RW RW RW	string string uint(16 uint(16 uint(16	g 40 i) 2 ii) 2	2 1	ASCII ASCII Coils : Remote Coils : Input Coils : Auto-On	V2.02 13.08.2012  V1.5.6  0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = auto-on	2 2 3	2 2 3
_	x x	x x x	x	Condition of DC input after powering the device Operation mode (UIP/UIR) Restart of the device (warm start) Acknowledge alarms Analog interface: Reference voltage (pin VREF)	WS WW W WS WW	uint(16 uint(16 uint(16 uint(16 uint(16	i) 2 i) 2 ii) 2	2 1 2 1 2 1	Reg : Power-On Coils : Operation mode Coils : Restart Coils : Alarms Coils : VREF	0xFFFF = off; 0xFFFE = restore 0x0000 = UIP; 0xFF00 = UIR 0xFF00 = acknowledge 0xF00 = acknowledge 0x0000 = 10V; 0xFF00 = SV	2 2 2 2 2 2	2 2 2
18	x x x	x x x	x	Analog interface: REM-SB evel Analog interface: REM-SB action Speed of internal voltage controller DC input after leaving remote Analog interface: Pin 14 configuration	RW RW RW RW	uint(16 uint(16 uint(16 uint(16 uint(16	) 2 i) 2 i) 2	2 1 2 1 2 1	Coils : REM-SB Level Coils : REM-SB Action Coils : Controller speed Coils : Condition Alarms 1	0x0000 = normal; 0xFF00 = inverted 0x0000 = DC off; 0xFF00 = DC auto 0x0000 = slow; 0xFF00 = Inst 0x0000 = off; 0xFF00 = unchanged 0x0000 = OVP (default); 0x0001 = OCP;	2 2 2	2 2
41	x		x	Analog interface: Pin 6 configuration	RW	uint(16	) 2	2 1	Alarms 2	0x002 = CPP; 0x0003 = 0VP + CCP; 0x0004 = 0VP + CPP; 0x0005 = CCP + CPP; 0x0006 = OVP + OCP + CPP; 0x0000 = OT + PF (default); 0x0010 = OT;	2	2
600	x		x x	Analog interface: Pin 15 configuration  Set voltage value Set current value	RW RW RW	uint(16 uint(16 uint(16	i) 2	2 1	Status DC  0x0000 - 0xD0E5 (0 - 102%)  0x0000 - 0xD0E5 (0 - 102%)	Oxfoot = Or; 0x0002 = PF; 0x0000 = CV; 0x0001 = DC output status  Voltage value (for translation see programming guide)  Current value (for translation see programming guide)	2	2
02 03	x		x	Set power value Set resistance value Device state	RW RW	uint(16 uint(16 uint(32	) 2	2 1	variable - 0xOCCC (x - 100%)  Minimum value needs to be cal-culated, refer programming guide  Bit 0- 4: Control location	Power value (for translation see programming guide) Resistance value (for translation see programming guide)	2 2	2 2
									Bit 5 :- Bit 6 : Master-slave type	0x10 = CANoperi, 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  0 = Slave; 1 = Master		
									Bit 7	0 = off; 1 = on 00 = CV; 01 = CR; 10 = CC; 11 = CP 0 = off; 1 = on 0 = stopped; 1 = running		
									Bit 14 : External sense  Bit 15 : Alarms  Bit 16 : OVP  Bit 17 : OCP  Bit 18 : OPP	0 = off; 1 = on 0 = none; 1 = active		
									Bit 19 : OT  Bit 20 : OTpre  Bit 21 : Power fail 1  Bit 22 : Power fail 2  Bit 23 : Power fail 3  Bit 24 : UVD	0 = none; 1 = active		
									Bit 25 : OVD Bit 26 : UCD Bit 27 : OCD Bit 28 : OPD Bit 29 : MSS	0 = none; 1 = active 0 = OK; 1 = Master-slave in secure mode		
07 08 09	x x x			Actual voltage Actual current Actual power  Count of OV alarms since power up	R R R	uint(16 uint(16 uint(16	) 2	2 1	Bit 30 : REM-SB  0x0000 - 0xFFFF (0 - 125%)	0 = DC enabled; 1 = REM-SB disables power output Actual votage (for translation see programming guide) Actual current (for translation see programming guide) Actual power (for translation see programming guide) Count	2 2 2	2 2 2
21 22 23 24	x x x			Count of OC alarms since power up Count of OP alarms since power up Count of OT alarms since power up Count of PF alarms since power up	R R R	uint(16 uint(16 uint(16 uint(16	) 2 ) 2	2 1 2 1 2 1 2 1	0x0000 - 0xFFFF 0x0000 - 0xFFFF 0x0000 - 0xFFFF 0x0000 - 0xFFFF	Count Count Count Count Count	3 3	3 3
50 53 56 59 60	x x x x		x x x x	Overvoltage protection threshold (OVP) Overcurrent protection threshold (OCP) Overpower protection threshold (OPP) Undervoltage detection (UVD) Adjustable UVD notification Overvoltage (detection (IVD))	RW RW RW RW RW	uint(16 uint(16 uint(16 uint(16 uint(16	i) 2 i) 2 i) 2	2 1 2 1 2 1 2 1 2 1 2 1	ELR 0x0000 - 0xE147 (0 - 110%) EL9B: 0x0000 - 0xD2F1 (0 - 103%) 0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xDE5 (0 - 102%) Adjustable UVD notification	OVP threshold (for translation see programming guide)  OCP threshold (for translation see programming guide)  OPP threshold (for translation see programming guide)  UVD threshold (for translation see programming guide)  OMODO = nothing; 0x0001 = signat; 0x0002 = warning; 0x0003 = alarm  OVD threshold (for translation see programming guide)	3 3 3	3 3 3
61 62 63 64 65 66	x x x x		x x x x	Over-outlage detection (OVD) Adjustable OVD notification Undercurrent detection (UCD) Adjustable UCD notification Overcurrent detection (OCD) Adjustable OCD notification	RW RW RW RW RW RW RW	uint(16 uint(16 uint(16 uint(16 uint(16 uint(16	) 2 () 2 () 2 () 2	2 1 2 1 2 1 2 1 2 1	0x0000 - 0xD0E5 (0 - 102%)  Adjustable OVD notification  0x0000 - 0xD0E5 (0 - 102%)  Adjustable UCD notification  0x0000 - 0xD0E5 (0 - 102%)  Adjustable OCD notification	OVD Breshold (for translation see programming guide)  0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm  UCD Breshold (for translation see programming guide)  0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm  0x000 breshold (for translation see programming guide)  0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3 3 3	3 3 3
67 68 50	x x x	x x	x	Adjustable OCD Hollination Overpower detection (OPD) Adjustable OPD notification Master-slave: Link mode Master-slave: Link mode of Share-Bus Master-slave: Enable MS	RW RW	uint(16 uint(16 uint(16 uint(16	i) 2 i) 2 ii) 2	_	0x0000 - 0xD0E5 (0 - 102%) Adjustable OPD notification  Coils : Mode Coils : Mode	OPD threshold (for translation see programming guide) 0x0000 = nothing; 0x0001 = signat; 0x0002 = warning; 0x0003 = alarm 0x0000 = Slave; 0xFF00 = Master 0x0000 = Slave; 0xFF00 = Master	3 3	3 3 4 4
54 55	x	x	x	Master-slave: Enable MS Master-slave: Init MS Master-slave: Condition  Master-slave: Total voltage	RW W R	uint(16 uint(16 uint(16	i) 2		Coils : MS on/off  Coils : MS start init  Reg : MS status  Floating point number IEEE754	0x0000 = off; 0xFF00 = on  0xFF00 = Start init  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  500	4	4 4
56 58 60 62 50	x x x	х		Master-slave: Total current Master-slave: Total power Master-slave: Number of initialised slaves Function generator Arbitany: Start/stop	R R R	floa floa uint(16 uint(16	at 4 (i) 2	4 2 4 2 2 1	Floating point number IEEE754 Floating point number IEEE754 Coils : Start/Stop	850 16.50 19 0x0000 = Stop; 0xFF00 = Start	4	4 4
52 54	x x x x x x	x x x	x x	Function generator Arbitrary: Select U Function generator Arbitrary: Select I Function generator XY: Select U-I mode Function generator XY: Select I-U mode Function generator Arbitrary: Start sequence Function generator Arbitrary: End sequence	RW RW RW RW RW RW	uint(16 uint(16 uint(16 uint(16 uint(16 uint(16	) 2 ) 2 ) 2 ) 2	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Coils : U Coils : I Coils : I-I Coils : I-I 0x00010x0063 0x00010x0063	0x0000 = not assigned; 0xFF00 = Assign function to voltage 0x0000 = not assigned; 0xFF00 = Assign function to current 0x0000 = not assigned; 0xFF00 = Assign function to U-I curve 0x0000 = not assigned; 0xFF00 = Assign function to I-U curve	E E E	5 5 5 5
61	x		x	Function generator Arbitrary: Sequence cycles  Function generator Arbitrary: Setup for sequence 1	RW	uint(16	) 2	2 16	0x0000x03E7  Bytes 0-3: Us/Is(AC) in V  Bytes 4-7: Ue/Ie(AC) in V  Bytes 8-11: fs(1/T) in Hz	Ox0000 = infinite  Floating point number in IEEE754 format, see device manual for value range, chapter about function generator  Integer in IEEE754 format: 010000 Hz	5	6
									Bytes 12-15: fe(1/T) in htz Bytes 16-19: Angle in degrees Bytes 20-23: Us/Is(DC) in V Bytes 24-27: Ue/Ie(DC) in V Bytes 28-31: Sequence time in µs	Integer in IEEE754 format 010000 Hz Integer in IEEE754 format 0"359" Floating point number in IEEE754 format, see device manual for value range, chapter about function generator Floating point number in IEEE754 format ELR 9000: 100 µs36,000.000,000 µs		
68	x	<b>+</b>	1	↓  Function generatorArbitrary: Setup for sequence 99	Į RW	floa	↓ ↓ nt 32			While current mode:  EL 9000 B: 10 µs36.000.000 µs  Floating point number in IEEE754 format, see device manual for value range, chapter about function generator  Integer in IEEE754 format: 010000 Hz	1	6
									Bytes 12-15: fe(1/T) in Hz  Bytes 16-19: Angle in degrees  Bytes 20-23: Us/Is(DC) in V  Bytes 24-27: Ue/Ie(DC) in V	Integer in IEEE754 format: 010000 Hz Integer in IEEE754 format: 0*359* Floating point number in IEEE754 format, see device manual for value range, chapter about function generator Floating point number in IEEE754 format Floating point number in IEEE754 format Floating point number in IEEE754 format Floating point number on control of the property of the prop		
00	×			Function generator: X/Y table, block 0	RW	uint(16	32	2 16	Bytes 28-31: Sequence time in µs  FUI mode: set voltage value IU mode: set current value (16 values block)	ELR 9000: 100 µs38,000,000,000 µs EL 9000 8: 10 µs38,000,000,000 µs value = real set value of voltage * 0.8 / Unorm * 32768 or value = real set value of current * 0.8 / Inorm * 32768	7	7
30	x x		x	Function generator: X/Y table, block 255  Upper limit of voltage set value (U-max)	RW RW	uint(16	i) 2	2 16	Ul mode: set current value (16 values block)  0x0000 - 0x00E5 (0 - 102%)	value = real set value of voltage * 0.8 / Uhom * 32768 or value = real set value of current * 0.8 / Inom * 32768  Voltage value (for translation see programming guide)	1	7
01 02 03 04 06	x x x		x x x x	Lover limit of voltage set value (L+min) Upper limit of current set value (I-min) Lover limit of current set value (I-min) Upper limit of power set value (P-max) Upper limit of resistance set value (R-max)	RW RW RW RW	uint(16 uint(16 uint(16 uint(16 uint(16	i) 2 i) 2 i) 2	2 1 2 1 2 1 2 1	DADODO - OXDDES (0 - 102%)   Dx0000 - OXDDES (0 - 102%)	Voltage value (for translation see programming guide) Current value (for translation see programming guide) Current value (for translation see programming guide) Power value (for translation see programming guide) Resistance value (for translation see programming guide)	2 2 2	2 2 2
10	X X X	x x x		Ethernet TCP keep-alive ProfinetModulus TCP: DHCP Protocot: Modbus Protocot: SCPI AnyBus module: Type	RW RW RW RW RW	uint(16 uint(16 uint(16 uint(16 uint(16	i) 2 i) 2 i) 2	2 1 2 1	Coils: Keep-alive on/off Coils: MDCP on/off Coils: MDDBUS on/off Coils: SCPI on/off Reg: Type	0x0000 = off; 0xFF00 = on 0x0000 = Profibus 0x0000 = RS2322 0x0010 = CANxpon		1
										0x012 = Modbus-TCP 1P 0x0013 = Profinet 1P 0x0014 = Ethernet 1P 0x0015 = Ethernet 2P 0x0016 = Modbus-TCP 2P 0x0016 = Modbus-TCP 2P		
21 41 43 51	x x x		x	AnyBus module: Interface type AnyBus module: Version number AnyBus module: Serial number Profibus: Ident number	R R RWN) RW	strin uint(8 uint(32 uint(16	) 4	0 20 4 2 4 2 2 1	ASCII	0x0019 = CAN 0x001A = EberCAT 0x00F = no modul connected;  *Profibus DPV1*  0xA001		8
52 53 69 80 00 54	x x x x			Profibus/Profinet: User-defineable installation date Profibus/Profinet: User-defineable description	RW RW RW RW RW	uint(16 strin strin strin strin strin	g 32 g 22 g 40 g 54	2 11	ASCII ASCII ASCII ASCII ASCII	Profibus: 0-125; CANopen: 0-127 "Test" "13.01.2012 09:59:00" "www.webpage.de" "Test" "15.01.2012 09:59:00"	£ £	8 8 8
02 04 06 08 35 62	x x x x			Ethernet/Profinet/Modbus TCP: Subnet mask Ethernet/Profinet/Modbus TCP: Gateway Ethernet/Profinet/Modbus TCP: Host name	RW RW RW RW RW	uint(8 uint(8 uint(8 strin strin uint(8	g 54 g 54	4 2 4 2 4 27 4 27	Bytes 0-3: 0255 Bytes 0-3: 0255 Bytes 0-3: 0255 Bytes 0-3: 0255 ASCII ASCII Bytes 0-3: 0255	192-188.0.2 (default) 255-255.250.0 (default) 192-188.0.1 (default) "Client" (default) "Workgroup" (default) 0.0.0.0 (default)		7
64 66 67 70	x x x		x	Ehernet/Profinet/Modbus TCP: DNS 2 RS232/USB: Connection timeout in milliseconds Ehernet/Profinet/Modbus TCP: Connection speed Ethernet port 1 Ehernet/Profinet/Modbus TCP: Connection speed Ethernet port 1	RW RW R R	uint(8 uint(16 uint(8 uint(16	) 2		Bytes 0-3: 0255 565535 Bytes 0-6: 0255 SMITP Error	0.0.0.0 (default) Default: 5ms 00.561-02.03:12.34 or 00-50-02-03-12-34 0x0000 = Auto; 0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex;		
71 72 73	x		x x	Ethernet/Profinet/Modbus TCP: Connection speed Ethernet port 2  Ethernet/Profinet/Modbus TCP: Port  Ethernet/Profinet/Modbus TCP: Port  Ethernet/Profinet/Modbus TCP: Model (in seconds)	RW RW RW	uint(16 uint(16 uint(16	) 2	2 1 2 1	SMTP test 0.65535 0, 5.65535	0x0003 = 100Mbit half duplex 0x0000 = Aubit half duplex 0x0001 = 10Mbit half duplex 0x0002 = 100Mbit half duplex 0x0003 = 100Mbit half duplex 0x0003 = 100Mbit half duplex 5025 (default), except port 80 0 = timeout inactive; 5 = 5 s (default)		
00	х		х	RS232/CANopervCAN: Baud rate	RW	uint(16	) 2	2 1	Baud rate	CAN         CANopen         ES232           0x00:         10ktps         10ktps         2400 Ed           0x01:         20ktps         20ktps         20ktps           0x02:         50ktps         50ktps         4800 Ed           0x03:         100ktps         10ktps         19200 Bd           0x04:         125ktps         125ktps         38400 Bd		
_	x x	x		CAN: ID format CAN: Termination	RW RW	uint(16		2 1	Coils: Base/Extended Coils: Bus termination	0x06: 250kbps 250kbps 57800 Bd 0x06: 500kbps 500kbps 115200 Bd 0x07: 11Mbps 800kbps - 0x08: - 1Mbps 0x09: - 1Mbps 0x000: - Autobaud - 0x0000 = Base (11 Bit): 0xFF00 = Extended (29 Bit)		
04 06 09	X	х		CAN: Base ID  CAN: Broadcast ID  CAN: Data length  CAN: Cycle read: Base ID	RW RW RW RW	uint(32 uint(32 uint(16 uint(32	() 4 () 4 () 2	4 2	0x00000x1FFFFFFF 0x00000x1FFFFFFF 0x00000x1FFFFFFF 0x00000x1FFFFFFFF Colis: Data length 0x00000x07FF or	0x0000 = off; 0xFF00 = on 0x0000 = Auto; 0xFF00 = Always 8 bytes		
12 14 15	x x x		x x	CAN: Cyclic send: Base ID  CAN: Cyclic read time (in ms): Status  CAN: Cyclic read time (in ms): Set value (U, I, P, R)  CAN: Cyclic read time (in ms): Limits 2 (P, R)	RW RW RW RW	uint(32 uint(16 uint(16 uint(16	() 4 (i) 2 (i) 2	2 1	0x00000x1FFFFFFF  0x00000x07FF or 0x00000x1FFFFFFF  205000; 0 == OFF  205000; 0 == OFF  205000; 0 == OFF	Default: OFF Default: OFF Default: OFF		-
17 18 00	x x x		x x x	CAN: Cyclic read time (in ms): Limits 1 (U, I) CAN: Cyclic read time (in ms): Actual values U, I, P GPIB address (option 3W) MPP tracking: MPP-Mode	RW RW		) 2 i) 2	2 1	205000; 0 == OFF 205000; 0 == OFF 130 0.4	Default: OFF Default: OFF  0 = MPPT off; 1 = MPP1; 2 = MPP2; 3 = MPP3; 4 = MPP4		] ]
01 02 03 04 05	x x x x		x x x x x	MPP tracking: Ucc (setup) MPP tracking: licc (setup) MPP tracking: Umpp (setup) MPP tracking: Impp (setup) MPP tracking: Impp (setup) MPP tracking: Pmpp (setup) MPP tracking: DeltaP (setup)	RW RW RW RW RW RW	uint(16 uint(16 uint(16 uint(16 uint(16 uint(16	) 2 () 2 () 2 () 2 () 2	2 1 2 1 2 1	0x0000 - 0xCCCC (0 - 100%)	Votage value in % of Unom (for translation see programming guide)  Current value in % of Inom (for translation see programming guide)  Votage value in % of Unom (for translation see programming guide)  Current value in % of Inom (for translation see programming guide)  Power value in % of Prom (for translation see programming guide)  Power value in % of Prom (for translation see programming guide)		
07 08 09 10	x x x x	х		MPP tracking: Umpp (result of MPP1/2/4) MPP tracking: Impp (result of MPP1/2/4) MPP tracking: Pmpp (result of MPP1/2/4) MPP tracking: Staff/Stop MPP tracking: Staff/Stop	R R R RW R	uint(16 uint(16 uint(16 uint(16 uint(16	(i) 2 (i) 2 (i) 2 (i) 2	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) Coils: Start/Stop Coils: Status	Votage value in % of Unon (for translation see programming guide)  Current value in % of Inom (for translation see programming guide)  Power value in % of Prom (for translation see programming guide)  0x0000 = stop; 0xFF00 = start  0x0000 = running; 0xFF00 = finished  0x0000 = orror; 0xFF00 = error		
13 14 15	x x x		x x	MPP tracking: Error MPP tracking: Interval (setup) MPP4 : Start MPP4 : End	RW RW	uint(16 uint(16 uint(16 uint(16	i) 2 i) 2	1 2 1 2 1 2 1	Coils: Error  0x0005 - 0xEA60  0x0001 - 0x0064  0x0001 - 0x0064	0x0000 = no error; 0xF00 = error Regulation & measuring interval in miliseconds, either for tracking in modes 1 ar 2 or for user curve progression in mode 4 Start voltage value out of 100 (related to registers 11100-11199) for use in MPP4 mode End voltage value out of 100 (related to registers 11100-11199) for use in MPP4 mode	4	<del> </del>
16 00 20 40	x x x		x	MPP4 : Repetitions MPP Tracking: User curve (MPP4 mode) voltage values 1-20 MPP Tracking: User curve (MPP4 mode) voltage values 21-40 MPP Tracking: User curve (MPP4 mode) voltage values 41-60 MPP Tracking: User curve (MPP4 mode) voltage values 61-80	RW RW RW RW RW	uint(16 uint(16 uint(16 uint(16 uint(16	(i) 2 (i) 40 (i) 40 (i) 40 (i) 40	20 20	0x0000 - 0xFFFF 0x0000 - 0xCCCC (0 - 100%)	0x0000 = no repetitions  Voltage value in % of Unom (for translation see programming guide)  Voltage value in % of Unom (for translation see programming guide)  Voltage value in % of Unom (for translation see programming guide)  Voltage value in % of Uhom (for translation see programming guide)		† †
00	x		<del>-</del>	MPP Tracking: User curve (MPP4 mode) voltage values 81-100  MPP Tracking: User curve (MPP4 mode) results 1-10 (10x Umon, Imor		uint(16	60	30	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unorn (for translation see programming guide)  Voltage value in % of Unorn  Current value in % of Inorn  Power value in % of Prom  (for translation see programming guide)  Voltage value in % of Unorn  Current value in % of Unorn	+	+
30	x		<u> </u>	MPP Tracking: User curve (MPP4 mode) results 11-20 (10x Umon, Imx  MPP Tracking: User curve (MPP4 mode) results 21-30 (10x Umon, Imx		uint(16			0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Power value in % of Pnom (for translation see programming guide)  Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)		
90	x			MPP Tracking: User curve (MPP4 mode) results 31-40 (10x Umon, Imx MPP Tracking: User curve (MPP4 mode) results 41-50 (10x Umon, Imx		uint(16			0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pom (for translation see programming guide) Voltage value in % of Phom Current value in % of Inom Power value in % of Inom Power value in % of Prom		1
50	×			MPP Tracking: User curve (MPP4 mode) results 41-50 (10x Umon, Imx  MPP Tracking: User curve (MPP4 mode) results 51-60 (10x Umon, Imx		uint(16			0x0000 - 0xCCCC (0 - 100%)	Power value in % of Pnom (for translation see programming guide)  Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)		
0	x			MPP Tracking: User curve (MPP4 mode) results 61-70 (10x Umon, Imc MPP Tracking: User curve (MPP4 mode) results 71-80 (10x Umon, Imc		uint(16		-	0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unorn Current value in % of Inorn Power value in % of Prom (for translation see programming guide)  Voltage value in % of Unorn Current value in % of Inorn Power value in % of Prom		
0	x			MPP Tracking: User curve (MPP4 mode) results 81-90 (10x Umon, Imc	on, Pmon) R	uint(16		-	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	(for translation see programming guide)  Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)  Voltage value in % of Unom		+
0 12	x x x x			MPP Tracking: User curve (MPP4 mode) results 91-100 (10x Umon, In  Battery test (static): Max. current Battery test (static): Max. power Battery test (static): Max. power	RW RW	uint(16	at 4		0x0000 - 0xCCCC (0 - 100%)  Floating point number IEEE754 Floating point number IEEE754	Current value in % of Inom Power value in % of Ponn (for translation see programming guide)  0 - rated current 0 - rated power		] ]
14 16 18 0	x x x			Battery test (static): Max resistance Battery test (static): Discharge voltage Battery test (static): Action (static): Max discharge Battery test (static): Max discharge time Battery test (static): Action upon reaching the max discharge capacity	RW RW RW RW	floa floa floa uint(32 uint(16	at 4	+ 2 4 2 4 2 4 2	Floating point number IEEE754 Floating point number IEEE754 Floating point number IEEE754 0x00000000 - 0x000A0000 ( 0 - 10 h) Action when reaching max discharge capac			1
13	x		x	Battery test (static): Action upon reaching the max. discharge time  Battery test (dynamic): Current level 1	RW RW	uint(16	i) 2	2 1	0x0000 - 0x0002  Floating point number IEEE754	0x001 = Signal (see register 11544) 0x0002 = Stop test 0x0000 = Do nothing 0x0001 = Signal (see register 11544) 0x0002 = Stop test 0 - rated current		
16 18 20 22 24	x x x x			Battery test (dynamic): Current level 2 Battery test (dynamic): Time of current level 1 Battery test (dynamic): Time of current level 2 Battery test (dynamic): Max power Battery test (dynamic): Max power Battery test (dynamic): Max paparity hot discharge Battery test (dynamic): Max paparity hot discharge	RW RW RW RW RW	floa floa floa floa floa floa	at 4 at 4 at 4 at 4 at 4	4 2	Floating point number IEEE754	0 - rated current 1 - 36000 s 1 - 36000 s 0 - rated power 0 - rated votage 0 - rated votage 0 - 99999 99		
26 28 30	x x			Battery test (dynamic): Max. capacity to discharge Battery test (dynamic): Max. discharge time Battery test (dynamic): Action upon reaching the max. discharge capa Battery test (dynamic): Action upon reaching the max. discharge time	RW	uint(32 uint(16 uint(16	i) 4	1 2 1	Floating point number IEEE754 0x0000000 - 0x000A0000 ( 0 - 10 h) 0x0000 - 0x0002 0x0000 - 0x0002	0 - 99999.99 0x0010203 = 01.02:03 as H+t.MM.SS, equivalent to [00][SEK][MIN][STD] 0x0000 = Do nothing 0x0001 = Signal (see register 11544) 0x0002 = Stop test 0x0000 = Do nothing		
	x x x x x	x	x	Battery test (dynamic): Action upon reaching the max. discharge time  Battery test: Start/stop  Battery test: Status 1  Battery test: Tror status  Battery test: Mode selection	RW RW R R RW	uint(16	i) 2 i) 2	2 1	0x0000 - 0x0002  Coils: Start/Stop  Coils: Test status  Coils: Error status  0x0000 - 0x0002	0x0000 = Do nothing 0x0001 = Signal (see register 11544) 0x0002 = Stop test 0x0001 = Stop; 0xFF00 = Run 0x0000 = Running or not started; 0x00FF = Firnished 0x00000 = No error; 0x00FF = Error 0x0000 = Ratery test mode off (default);		
34	×	Ц	^	Battery test: Mode selection  Battery test: Discharged capacity in Ah Battery test: Discharged energy in Wh	RW		´		0x0000 - 0x0002	0x0000 = Battery test mode off (default); 0x0001 = Static mode; 0x0002 = Dynamic mode 10.5 Ah		
_	x x	Ħ	$\dashv$	Battery test: Time at end of test	R	floa floa uint(16	nt 4	4 2	x Wh HH:MM:SS:MS	23453.5 Wh  Word 0 = Hours (0-10)  Word 1 = Minutes (0-59)  Word 2 = Seconds (0-59)	$\dagger$	+