bus address d coils (0x01)	Read holding registers	single coil (0x05)	single register (0x06)	e multiple registers (0x		s	Data type	lenath in bytes	conformation of the second	ou of		Profibus slot / Profinet subslo	bus/Profinet index in slot	⊑
0 1 21 41 61	x x x	Write	Write	Write	Description Device class Device type Manufacturer Manufacturer address Manufacture 72P code	A Access	uint(16) ing 4 ing 4	2 40 40 40	Data 1 20 ASCII 20 ASCII 20 ASCII 20 ASCII 20 ASCII	Example 20, 32, 34, 36 = ELR 9000 39 = EL 9000 B ELR 9080-170	Profile		FOT.
81 101 121 123 125	x x x x				Manufacturer phone number Manufacturer website Mominal voltage Mominal current Mominal power Max Internal resistance	R R R	R str R str R f	ing 4	40	20 ASCII 20 ASCII 21 Floating point number IEEE754 2 Floating point number IEEE754	80 170 3500 12		-	1
129 131 151 171 191 211	x x x x x			x	Min. Internal resistance Article no. Serial no. User text Firmware version (KE) Firmware version (+MI)	R R RW RW	sti sti	ing 4 ing 4 ing 4 ing 4 ing 4	40 40 40	2 Floating point number IEEE754 20 ASCII	0,005 33230401 100010002 V2.01 05.09.2012 V2.02 13.08.2012		1 1 1 1 1 1 1 1	1 1 1 1
231 402 x 405 x 407 x 408 409 x	_	x x x	x		Firmware version (DR) Remote mode DC input Condition of DC input after power fail alarm Condition of DC input after powering the device Operation mode (UIP/UR)	RW RW RW RW	uint(uint(uint(uint(16) 16) 16)	2 2 2 2 2	1 Coils : Remote	V1.5.6 0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = auto-on 0x0F0F = off; 0xFFF0 = auto-on 0xFFFF = off; 0xFFF0 = urlor 0x0000 = UIP; 0xFF00 = UIR		2 2 3 3	3
410 411 416 x 417 x 418 x 422 x		x x x x			Restart of the device (warm start) Acknowledge alarms Analog interface: Reference voltage (pin VREF) Analog interface: REM-SB ievel Analog interface: REM-SB action Speed of internal voltage controller	W W RW RW	uint(uint(uint(uint(uint(16) 16) 16) 16)	2 2 2 2 2	1 Coils : Restart 1 Coils : Alarms 1 Coils : VREF 1 Coils : VREF 1 Coils : REM-SB Level 1 Coils : REM-SB Action 1 Coils : Controller speed	0xFF00 = execute 0xFF00 = acknowledge 0x0000 = 10V; 0xFF00 = 5V 0x0000 = normal; 0xFF00 = inverted 0x0000 = DC off; 0xFF00 = DC auto 0x0000 = slow; 0xFF00 = fast		2 2 1 2 1 2 1	1 1 3
425 x 432 440	x	x	x		DC input after leaving remote Reset device to factory settings Analog interface: Pin 14 configuration Analog interface: Pin 6 configuration	RW W RW	uint(16)	2 2 2	1 Coils : Condition 1 Coils : Reset 1 Alarms 1	DOD00 = off; 0xFF00 = unchanged		2 4	4
442	x		x		Analog interface: Pin 15 configuration Set voltage value	RW	uint(16)	2	1 Status DC 1 0x0000 - 0x00E5 (0 - 102%)	0x0001 = OT; 0x0002 = PF 0x0000 = CV; 0x0001 = DC output status Voltage value (for translation see programming guide)		2 4	4
501 502 503 505	x x		x x		Set current value Set power value Set resistance value Device state	RW RW	uint(16) 16)	2 2 2 4	1 0x0000 - 0xx065 (0 - 102%) 1 0x0000 - 0xx065 (0 - 102%) 1 variable - 0xcCcC (x - 100%) Minimum value needs to be cal-culated, refer programming guide 2 Bit 0 - 4: Control location	Current value (for translation see programming guide) Power value (for translation see programming guide) Resistance value (for translation see programming guide) to 0x00 = free; 0x01 = local; 0x03 = USB; 0x04 = analog; 0x05 = Profibus; 0x06 = Ethernet; 0x08 = Master/Slave; 0x09 = RS232; 0x16 = CAN0per; 0x12 = Modbus TCP IP; 0x13 = Profinet IP; 0x14 = Ethernet IP; 0x15 = Ethernet 2P; 0x16 = Modbus TCP 2P; 0x17 = Profinet 2P; 0x18 = GPIB; 0x19 = CAN; 0x1A = EtherCAT		2 2 2 2 2 2 2	2
										Bit 18 :- Bit 10-9: Regulation mode Bit 11-1: Remote Bit 12 :- Bit 12 :- Bit 13 : Function generator Bit 14 : External sense Bit 15 : Alarms Bit 16 : OVP Bit 17 : OCP	00 = CV; 01 = CR; 10 = CC; 11 = CP 0 = off; 1 = on 0 = stopped; 1 = running 0 = off; 1 = on 0 = none; 1 = active 0 = none; 1 = active			
										Bit 18 : OPP Bit 19 : OT Bit 20 : OTpre Bit 21 : Power fail 1 Bit 22 : Power fail 2 Bit 23 : Power fail 3 Bit 24 : UVD Bit 25 : OVD	0 = none; 1 = active			
507 508	x				Actual voltage Actual current	R	t uint(- /	2	Bit 26 : UCD	0 = none; 1 = active 0 = none; 1 = active 0 = none; 1 = active 0 = OK; 1 = Master-slave in secure mode 0 = DC enabled; 1 = REM-SB disables power output Actual ovalage (for translation see programming guide) Actual current (for translation see programming guide)		2 2 2	
520 521 522 523	x x x x				Actual power Count of OV alarms since power up Count of OC alarms since power up Count of OP alarms since power up Count of OT alarms since power up	R R R	uint(uint(uint(uint(uint(16) 16) 16) 16)	2 2 2 2	1 0x0000 - 0xFFFF (0 - 125%) 1 0x0000 - 0xFFFF 1 0x0000 - 0xFFFF 1 0x0000 - 0xFFFF 1 0x0000 - 0xFFFF	Actual power (for translation see programming guide) Count Count Count Count		2 3 3 2 3 2 3 2 3 2	2 2 2
550 553 556 559	x x x x x		x x x		Count of PF alarms since power up Overvoltage protection threshold (OVP) Overcurrent protection threshold (OCP) Overpower protection threshold (OPP) Undervoltage detection (UVD)	RW RW RW	uint(uint(uint(16) 16)	2 2 2 2	1 0x0000 - 0xFFFF ELR: 0x0000 - 0xE147 (0 - 110%) E198: 0x0000 - 0xD2F1 (0 - 103%) 0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xD0E5 (0 - 102%)	Count 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)		3	2
560 561 562 563 564 565 566 567 568	x x x x x x x x x		x x x x x x		Adjustable UVD notification Overvoltage detection (OVD) Adjustable VVD notification Undercurrent detection (UCD) Adjustable UCD notification Overcurrent detection (OCD) Adjustable OCD notification Overpower detection (OPD) Adjustable OCD notification	RW RW RW RW RW RW RW	uint(uint(uint(uint(uint(uint(16) 16) 16) 16) 16) 16)	2 2 2 2 2 2 2 2	Adjustable UVD notification	0x000 = nothing: 0x0001 = signat, 0x0002 = warring: 0x0003 = alarm OVD threshold (for translation see programming guide) 0x000 = nothing: 0x0001 = signat, 0x0002 = warring: 0x0003 = alarm UCD threshold (for translation see programming guide) 0x0000 = nothing: 0x0001 = signat, 0x0002 = warring: 0x0003 = alarm OCD threshold (for translation see programming guide) 0x0000 = nothing: 0x0001 = signat, 0x0002 = warring: 0x0003 = alarm OPD threshold (for translation see programming guide) 0x000 = nothing: 0x0001 = signat, 0x0002 = warring: 0x0003 = alarm		3 1 3 1 3 1 3 1 3 1 3 1 3 1	1
650 x 652 x 653 x 654		x x x	x		Master-slave: Link mode Master-slave: Link mode of Share-Bus Master-slave: Enable MS Master-slave: Init MS Master-slave: Condition	RW RW W R	uint(uint(16) 16) 16)	2 2 2 2 2	Coils : Mode Coils : Mode Coils : Mode Coils : MS on/off Coils : MS start init Reg : MS status	0x0000 = Slave; 0xFF00 = Master 0x0000 = Slave; 0xFF00 = Master 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	-	4	
656 658 660 662 850 x	x x x	x			Master-slave: Total voltage Master-slave: Total current Master-slave: Total power Master-slave: Number of initialised slaves Function generator Arbitary: Start/stop	R R R	f f uint(16)	4 4 4 2	2 Floating point number IEEE754 2 Floating point number IEEE754 2 Floating point number IEEE754 1 Colls : Start/Stop	500 850 16:50 19 0x0000 = Stop; 0xFF00 = Start		4 4 4 4 5	
851 x 852 x 854 x 855 x 859 860 861	:	x x x	x x		Function generator Arbitrary: Select U Function generator Arbitrary: Select II Function generator XY: Select U-I mode Function generator XY: Select I-U mode Function generator Arbitrary: Start sequence Function generator Arbitrary: Bart sequence Function generator Arbitrary: Sequence Function generator Arbitrary: Sequence cycles	RW RW RW RW RW	uint(uint(uint(uint(uint(16) 16) 16) 16)	2 2 2 2 2 2	1 Coils : U 1 Coils : U 1 Coils : U-1 1 Coils : U-1 1 Coils : U-1 1 Dx00710x0063 1 0x00710x0063 1 0x00000x03E7	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 0x0000 = not assigned; 0xFF00 = Assign function to I-U curve		5 5 5 5 5 1	
900	x			х	Function generator Arbitrary: Setup for sequence 1	RW	f	loat 3	32	16 Bytes 0-3: Us/Is(AC) in V Bytes 4-7: Us/Is(AC) in V Bytes 4-7: Us/Is(AC) in V Bytes 8-11: fs(1/T) in Hz Bytes 12-15: fs(1/T) in Hz Bytes 12-15: Angle in degrees Bytes 10-19: Angle in degrees Bytes 20-23: Us/Is(DC) in V Bytes 24-27: Us/Is(DC) in V	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator Integer in IEEE754 format 010000 Hz Integer in IEEE754 format 03000 Hz Integer in IEEE754 format 0359* Floating point number in IEEE754 format, see device manual for value range, chapter about function generator		5	
↓ ↓ 468	x x	1	1	↓ x	i Function generatorArbitrary: Setup for sequence 99	ţ RW	f	↓ ↓ ↓ loat 3		Bytes 28-31: Sequence time in µs 1 16 Bytes 0-3: Us/Is(AC) in V Bytes 4-7: Us/Is(AC) in V Bytes 8-11: fs(1/T) in Hz Bytes 12-15: fs(1/T) in Hz	Floating point number in IEEE/754 format ELR 9000: 100 ps.: 38,000,000,000 ps While current mode: EL 9000 B: 10 µs.: 38,000,000,000 ps EL 9000 B: 10 µs.: 38,000,000,000 ps Floating point number in IEEE/754 format see device manual for value range, chapter about function generator Integer in IEEE/754 format: 010000 Hz Integer in IEEE/754 format: 010000 Hz	1	6 9	1
2600	x			x	Function generator: X/Y table, block 0	RW	uint(16) 3	32	Bytes 16-19: Angle in degrees Bytes 20-23: Us/Is(DC) in V Bytes 24-27: Us/Is(DC) in V Bytes 28-31: Sequence time in µs 16 Ul mode: set voltage value IU mode: set current value	Integer in IEEE/754 format. 0°359° Floating point number in IEEE/754 format, see device manual for value range, chapter about function generator Floating point number in IEEE/754 format ELR 9000: 100 µs36,000,000,000 µs EL 9000 B: 10 µs36,000,000,000 µs value = real set value of voltage * 0.8 / Uhorn* 32/768 or value = real set value of current* 0.8 / Inom* 32/768		7	
i680	x x	1	↓ x	↓ x	Function generator: X/Y table, block 255 Upper limit of voltage set value (U-max)	↓ RW			32	(16 values block) 1	value = real set value of voltage * 0.8 / Lhom * 32768 or value = real set value of current * 0.8 / Inom * 32768 Voltage value (for translation see programming guide)	1	7 25	1 5
0001 0002 0003 0004 0006	x x x x	x	x x x x		Lower limit of voltage set value (U-min) Upper limit of current set value (I-max) Lower limit of current set value (I-min) Upper limit of power set value (P-max) Upper limit of resistance set value (R-max) Ethernet: TCP keep-alive	RW RW RW RW	uint(uint(uint(uint(16) 16) 16) 16)	2 2 2 2 2	1 0x0000 - 0x00E5 (0 - 102%) 1 Coils: Keep-alive on/off	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) 0,0000 = off; 0xFF00 = on		2 3 2 3 2 3 2 3 2 3	3
0008 x 0100 x 0011 x 0012 0020	x x	x x x			ProfinetWhddus TCP. DHCP Protocot Mobitus Protocot SCPI Warm start Interface card AnyBus module: Type	RW RW RW W R	uint(16) 16) 16)	2 2 2 2 2 2	1 Coils: OHCP on/off 1 Coils: MODBUS on/off 1 Coils: MODBUS on/off 1 Coils: SCPI on/off 1 Coils: Warm start 1 Reg: Type	0.0000 = off, 0.6FF00 = on 0.0000 = off, 0.0FF00 = on 0.0000 = off, 0.0FF00 = on 0.0000 = off, 0.0FF00 = on 0.0000 = PROSS2 0.0000 = PROSS2 0.0001 = C.Abopen 0.0001 = C.Abopen 0.00012 = Modbus-TCP 1P 0.00013 = PROFINET 0.00015 = Ehernet 1P 0.00015 = Ehernet 2P 0.00017 = Profinet 2P 0.00017 = Profinet 2P 0.00017 = Profinet 2P 0.00017 = Profinet 2P 0.00018 = CAN 0.00019 = CAN 0.00011 = EhernCAT 0.00019 = CAN 0.00011 = EhernCAT 0.00019 = ON 0			
021 041 043 1251 1252 1253	x x x x x x		X X	x	AnyBus module: Interface type AnyBus module: Version number AnyBus module: Serial number Profibus: Ident number Profibus: Ident number Profibus: Profiper: Save address Profibus/Profinet: User-defineable "Function tag" Profibus/Profinet: User-defineable "Location tag"	R R R(W) RW RW RW	uint(uint(uint(uint((8) 32) 16) 16) ing 3	4 2 2 32	20 ASCII 2 2 2 1 1 1 1 6 ASCII 11 ASCII	"Profibus DPV1" 0x4001 Profibus: 0-125; CANopen: 0-127 "Test" Test"		8 8 8	
1280 1300 1354 1502 1504 1506 1508 1535	x x x x x x x			x	Profibus/Profinet User-defineable installation date Profibus/Profinet User-defineable description Profibus/Profinet User-defineable Station name* EthernetProfinetModbus TCP: IP address EthernetProfinetModbus TCP: Shorte mask EthernetProfinetModbus TCP: Shorte mask EthernetProfinetModbus TCP: Host name EthernetProfinetModbus TCP: Host name EthernetProfinetModbus TCP: Dost name EthernetProfinetModbus TCP: Dost name EthernetProfinetModbus TCP: DNS 1	RW RW RW RW RW RW RW	str uin uin uin str str	t(8) t(8) t(8) t(8) t(8)	54 00 1 4 4 4 54	20 ASCII 27 ASCII 27 ASCII 28 Juss 0-3: 0.255 2 Bytes 0-3: 0.255 2 Bytes 0-3: 0.255 2 Bytes 0-3: 0.255 27 ASCII 2 Bytes 0-3: 0.255	"13.01.2012 09.59.00" "www.webpage.de" "Test" 192.168.0.2 (default) 192.255.255.255.0 (default) 192.168.0.1 (default) "Clien" (default) "Workgroup" (default) 0.0.0.0 (default)		B B B	
1564 1566 1567 1570	x x x		x	x	Ethernet/Profinet/Modbus TCP: DNS 2 RS232/USB: Connection streact in milliseconds Ethernet/Profinet/Modbus TCP: MAC Ethernet/Profinet/Modbus TCP: Connection speed Ethernet port 1 Ethernet/Profinet/Modbus TCP: Connection speed Ethernet port 2	RW RW R RW	uint(uint(uint(16) ((8) 16)	4 2 6 2	2 Bytes 0-3: 0255 1 565535 3 Bytes 0-6: 0255 1 SMTP Error	0.0.0.0 (default) Default: 5ms 00:50:C2:C3:12:34 or 00:50:C2:C3-12:34 00:0000 = Auto; 00:001 = 10:001: half duplex; 00:002 = 10:001: half duplex; 00:002 = 10:0001: half duplex; 00:003 = 10:0001: half duplex; 00:0001 = 10:0001: half duplex; 00:0001 = 10:001: half duplex; 00:0002 = 10:001: trul duplex; 00:0002 = 10:001: trul duplex;		+	_
1572 1573 1700	x x		x x		Ethernet/Profinet/Modbus TCP: Port Ethernet: TCP Socket sineout (in seconds) RS232/CANopen/CAN: Baud rate	RW RW	uint(16)	2 2 2	1 0.65535 1 0, 5.65535 1 Baud rate	De0003 = 100Mbit half duplex			
1701 x 1702 x 1704 1706	x x	x		x	CAN: ID format CAN: Termination CAN: Base ID CAN: Broadcast ID CAN: Data length	RW RW RW	uint(uint(uint(16) 32) 32)	2 4 4	1 Coils: Base/Extended 1 Coils: Bus termination 2 Dx00000x7FF or 0x00000x1FFFFFFF 2 0x00000x1FFFFFFF 0x00000x1FFFFFFF 1 Coils: Data length	0x09: Autobaud 0x0000 = Base (11 Bit); 0xFF00 = Extended (29 Bit) 0x0000 = off; 0xFF00 = on		‡ + +	-
1710 1712 1714 1715	x x x	^	x		CAN: Cyclic read: Base ID CAN: Cyclic send: Base ID CAN: Cyclic send: Base ID CAN: Cyclic read time (in ms): Status CAN: Cyclic read time (in ms): Set value (U, I, P, R)	RW RW RW	uint(uint(uint(uint(32) 32) 16)	4 4 2 2	2 0.00000x07FF or 0x00000x1FFFFFFFF 2 0x00000x1FFFFFFFF 1 205000; 0 == OFF 1 205000; 0 == OFF	0x0000 = Auto; 0xFF00 = Always 8 bytes Default: OFF Default: OFF		† + +	_
9716 9717 9718 9900 000 001	x x x		x x x		CANE Cyclor read time (in ms): Limits 2 (P, R) CANE Cyclor read time (in ms): Limits 1 (U, I) CANE Cyclor read time (in ms): Actual values U, I, P GPIB address (option 3W) MPP tracking: MPP-Mode MPP Tracking: Ucc (setup)	RW RW RW	uint(uint(uint(uint(16) 16) 16)	2 2 2 2 2 2	1 205000; 0 == OFF 1 205000; 0 == OFF 1 205000; 0 == OFF 1 130 1 04 1 0x0000 - 0xCCCC (0 - 100%)	Default: OFF Default: OFF Default: OFF 0 = MPPT off; 1 = MPP1; 2 = MPP2; 3 = MPP3; 4 = MPP4 Voltage value in % of Unom (for translation see programming guide)		‡ ‡ ∓	-
002 003 004 005 006 007	x x x x		x x x x		MPP tracking: Lingto (setup) MPP tracking: Unryp (setup) MPP tracking: Impp (setup) MPP tracking: Pripp (setup) MPP tracking: OetaP (setup) MPP tracking: DetaP (setup) MPP tracking: Unryp (result of MPP1/2/4)	RW RW RW RW	uint(uint(uint(uint(16) 16) 16) 16)	2 2 2 2 2	1 0x0000 - 0xCCCC (0 - 100%)	Current value in % of inom (for translation see programming guide) Voltage value in % of Unom (for translation see programming guide) Current value in % of hom (for translation see programming guide) Power value in % of Phom (for translation see programming guide) Power value in % of Phom (for translation see programming guide) Voltage value in % of Unom (for translation see programming guide)			_
008 009 010 x 011 x 012 x 013	_	х	x		MPP tracking: Impp (result of MPP1/2/4) MPP tracking: Pmpp (result of MPP1/2/4) MPP tracking: Start/Stop MPP tracking: Status (of MPP1/2/4) MPP tracking: Error MPP tracking: Interval (setup) MPP4 : Start	RW RW	uint(uint(uint(16) 16) 16) 16) 16)	2 2 2 2 2	1 0x0000 - 0xCCCC (0 - 100%) 1 0x0000 - 0xCCCC (0 - 100%) 1 Coils: Status 1 Coils: Status 1 Coils: Error 1 0x0005 - 0xEA60	Current value in % of horn (for translation see programming guide) Power value in % of Pnom (for translation see programming guide) 0x0000 = stop; 0xFF00 = start 0x0000 = running; 0xFF00 = finished 0x0000 = no erro; 0xFF00 = error Regulation & measuring interval in miliseconds, either for tracking in modes 1 a 2 or for user curve progression in mode 4 Start votage value out of 100 (criated to registers 11100-11199) for use in MPP		<u>+</u> +	
015 016 100 120 140 160 180	x x x x x x		x		MPP4 : Eep ettions MPP4 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 21-40 MPP Tracking: User curve (MPP4 mode) voltage values 61-80 MPP Tracking: User curve (MPP4 mode) voltage values 81-100	RW RW RW RW RW RW	uint(uint(uint(uint(uint(uint(16) 16) 16) 4 16) 4 16) 4	40 40 40	1 0x0001 - 0x0064 1 0x0001 - 0x0064 1 0x0000 - 0xFFFF 20 0x0000 - 0xCCCC (0 - 100%)	mode End voltage value out of 100 (related to registers 11100-11199) for use in MPP4 mode 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 Unom (for translation see programming guide) Voltage value in % of Unom (for translation see programming guide)			
200	×			*	MPP Tracking: User curve (MPP4 mode) results 1-10 (10x Umon, Imon, Pmon) MPP Tracking: User curve (MPP4 mode) results 1-20 (10x Umon, Imon, Pmon)	R	uint(16) 6	60	30 0x0000 - 0xCCCC (0 - 100%) 30 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of thom Current value in % of hom Power value in % of Pnom (for translation see programming guide) Voltage value in % of thom Current value in % of hom Power value in % of Pnom (for translation see programming guide)		† -	_
290	x				MPP Tracking: User curve (MPP4 mode) results 21-30 (10x Umon, Imon, Pmon) MPP Tracking: User curve (MPP4 mode) results 31-40 (10x Umon, Imon, Pmon)	R	t uint(30 0x0000 - 0xCCCC (0 - 100%) 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) Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide) Voltage value in % of Vhom		<u> </u>	
350	x				MPP Tracking: User curve (MPP4 mode) results 41-50 (10x Umon, Imon, Pmon) MPP Tracking: User curve (MPP4 mode) results 51-60 (10x Umon, Imon, Pmon) MPP Tracking: User curve (MPP4 mode) results 61-70 (10x Umon, Imon, Pmon)	R	t uint(16) 6	60	30 0x0000 - 0xCCCC (0 - 100%) 30 0x0000 - 0xCCCC (0 - 100%)	Current value in % of nom 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) Voltage value in % of Unom Current value in % of Inom		+	_
410	x				MPP Tracking: User curve (MPP4 mode) results 71-80 (10x Umon, Imon, Pmon) MPP Tracking: User curve (MPP4 mode) results 71-80 (10x Umon, Imon, Pmon)	R	uint(16) 6	60	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Power value in % of Pnom (for translation see programming guide) Votage value in % of Unom Current value in % of nom Power value in % of Pnom (for translation see programming guide) Votage value in % of Inom Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	+	+	
500 502 504	x x x x			x x x	MPP Tracking: User curve (MPP4 mode) results 91-100 (10x Umon, Imon, Pmon) Battery test (static): Max. current Battery test (static): Max. power Battery test (static): Max. resistance	RW RW	f f	loat loat	4 4 4	30 0x0000 - 0xCCCC (0 - 100%) 2 Floating point number IEEE754 2 Floating point number IEEE754 2 Floating point number IEEE754	Votage value in % of Unom Current value in % of Inom Power value in % of Pnom (for translation see programming guide) 0 - rated current 0 - rated power Mn max resistance, 0 = OFF	† - -	† ‡	
504 506 508 510 512 513	x x x		x	x x x	Battery test (static): Max: resistance Battery test (static): Discharge voltage Battery test (static): Max: capacity to discharge Battery test (static): Max: discharge time Battery test (static): Action upon reaching the max: discharge capacity Battery test (static): Action upon reaching the max: discharge time	RW RW RW RW	f f uint(uint(loat loat 32)	4 4 4 2 2	2 Floating point number IEEE754 2 Floating point number IEEE754 2 Floating point number IEEE754 2 Go00000000 - 0x000A0000 (0 - 10 h) 1 Action when reaching max discharge capaci 1 0x0000 - 0x0002	0 - rated voltage 0 - 99999.99 0x0001203 = 01:02:03 as HH: MM: SS, equivalent to [00][SEK][MIN][STD] 9 0x0000 = Do nothing 0x0001 = Signal (see register 11544) 0x0002 = Stop test 0x0000 = Do nothing 0x0001 = Signal (see register 11544)		‡ + +	
514 516 518 520 522 524	x x x x			x x x x x	Battery test (dynamic): Current level 1 Battery test (dynamic): Turrent 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): Discharge voltage	RW RW RW RW	f f f	loat loat loat loat loat	4 4 4 4 4	2 Floating point number IEEE754 2 Floating point number IEEE754 5 Floating point number IEEE754 7 Floating point number IEEE754	0x0001 = Signal (see register 11544) 0x0002 = Signal (see register 11544) 0 - rated current		<u> </u>	
526 528 530	x x x		x	х	Battery test (dynamic): Max capacity to discharge Battery test (dynamic): Max advantage time Battery test (dynamic): Action upon reaching the max. discharge capacity Battery test (dynamic): Action upon reaching the max. discharge time	RW RW	f uint(uint(32) 16)	4 4 2	2 Floating point number IEEE/754 2 0x00000000 - 0x000A0000 (0 - 10 h) 1 0x0000 - 0x0002	0 - 99999.99 0x00010203 = 01:02:03 as HH:MM:SS, equivalent to [00][SEK][MIN][STD] 0x0000 = Do nothing 0x0001 = Signal (see register 11544) 0x0002 = Stop test 0x0000 = Do nothing 0x0001 = Signal (see register 11544)	+	 	_
532 x 533 x 534 x 535	x	х	x		Battery test: Start/stop Battery test: Status 1 Battery test: Error status Battery test: Mode selection Battery test: Discharged canacity in Ah	RW R R	uint(uint(uint(16) 16)	2 2 2	Coils: Start/Stop	0x0002 = Stop; 0xFF00 = Run 0x0000 = Stop; 0xFF00 = Run 0x0000 = Running or not started; 0x00FF = Finished 0x0000 = No error; 0x00FF = Error 0x0000 = Statery test mode off (default); 0x0001 = Static mode; 0x0002 = Oynamic mode		#	
536 538 540	x x			-	Battery test: Discharged capacity in Ah Battery test: Discharged energy in Wh Battery test: Time at end of test	R R		loat loat 16)	4 8	2 x Ah 2 x Wh 4 HH-MM:SS:MS	10.5 Ah 22453 Wh Word 0 = Hours (0-10) Word 1 = Minutes (0-59) Word 2 = Seconds (0-59) Word 3 = Millseconds (0-999)	f	+	