ELR	ELR 5000 (ELM 5000) register list for devices with HMI firmware from V2.04 (check the installed version in your device's MENU in item ABOUT HW, SW)											
	i i	uxus)										
		registers (r	ter (0x06)	multiple registers (0x10)				bytes	SIS			
ddress		ĕ ≅	single register	tiple re				th in by	registe			
Modbus ad	ad coils	Kead nolding Write single o	te singl	Write mul		Access	Data type	Data length in	Number of			
Moc	_	x Kead Write	Write		Description Device class	Acc	uint(16)	Dat	1 1	Data	Example 41 = ELR 5000 Series	
1 21		x x			Device type Manufacturer	R	char	40	20	ASCII ASCII	ELR 5080-25	
41 61 81		x x			Manufacturer address Manufacturer ZIP code Manufacterer phone number	R R	char char char	40 40 40	20	ASCII ASCII ASCII		
101		x x	H		Manufacturer priorite rumbor Manufacturer website Nominal voltage	R	char	40	20	ASCII Floating point number IEEE754	80	
123 125		x x			Nominal current Nominal power	R R	float float	4	2	Floating point number IEEE754 Floating point number IEEE754	25 320	
151		x x			Article no. Serial no.	R	char	40	20	ASCII ASCII ASCII	33220430 100010002	
191 211 231		x x			User text Firmware version (HMI) Firmware version (DR)	RW R	char char char	40 40 40	20	ASCII ASCII	V2.01 02.12.2015 V2.0.1	
402	х	х			Remote mode	RW	uint(16)	2	1	Coils : Remote	0x0000 = off; 0xFF00 = on	
405 407 408	x	x x	×		DC input Condition of DC input after power fail alarm Condition of DC input after powering the device	RW RW	uint(16) uint(16) uint(16)	2	1	Coils : Input Coils : Auto-On Reg : Power-On	0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = auto-on 0xFFFF = off; 0xFFFE = restore	
410 411		x x	Ŷ		Contained to the device (warm start)  Acknowledge alarms	W	uint(16)	2	1	Coils : Restart Coils : Alarms	0xFF00 = execute 0xFF00 = acknowledge	
500		х	х		Set voltage value	RW	uint(16)	2		0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	
501 502 505		x x	x		Set current value Set power value Device state	RW RW	uint(16) uint(16) uint(32)	2	1	0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%) Bit 0-4 : Control location	Current value (for translation see programming guide)  Power value (for translation see programming guide)  0x00 = free: 0x01 = local: 0x06 = Ethernet	
000							uni(02)			Bit 5 :- Bit 6 :-	and nea, and nead, and Laternat	
										Bit 7 : Input state Bit 8 :-	0 = off; 1 = on	
										Bit 9-10 : Regulation mode  Bit 11 : Remote control  Bit 12 :-	00 = CV; 10 = CC; 11 = CP 0 = off; 1 = on	
										Bit 13 : Sequence mode Bit 14 : Remote sense	0 = stopped; 1 = running 0 = internal; 1 = external	
										Bit 15 : Alarms Bit 16 : OVP	0 = no alarm; 1 = min. one alarm active 0 = none; 1 = active	
										Bit 17 : OCP  Bit 18 : OPP  Bit 19 : OT	0 = none; 1 = active 0 = none; 1 = active 0 = none; 1 = active	
										Bit 19 : O1  Bit 20 :-  Bit 21 : Power fail	0 = none; 1 = active 0 = none; 1 = active	
507		x			Actual voltage	R	uint(16)	2	1	Bit 24-31: - 0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)	
508 509		x	E		Actual current Actual power	R R	uint(16) uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%) 0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide) Actual power (for translation see programming guide)	
520 521	_	x x	H		Count of OV alarms since power up Count of OC alarms since power up	R R	uint(16) uint(16)	2		0x0000 - 0xFFFF 0x0000 - 0xFFFF	Count	
522 523		x x	E		Count of OP alarms since power up Count of OT alarms since power up	R R	uint(16) uint(16)	2	1	0x0000 - 0xFFFF 0x0000 - 0xFFFF	Count Count	
524		х			Count of PF alarms since power up  Overvoltage protection threshold (OVP)		uint(16)	2		0x0000 - 0xFFFF 0x0000 - 0xE147 (0 - 110%)	Count	
550 553 556		x x	x x		Overvoirage protection threshold (OVP) Overcurrent protection threshold (OCP) Overpower protection threshold (OPP)	RW RW	uint(16)	2 2	1	0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xE147 (0 - 110%)	OVP threshold (for translation see programming guide)  OCP threshold (for translation see programming guide)  OPP threshold (for translation see programming guide)	
850	х	х			Sequence generator: Sequence: Start/stop	RW		2		Coils : Start/Stop	0x0000 = stop; 0xFF00 = start	
859 860		x	x		Sequence generator: Start sequence point Sequence generator: End sequence point	RW	uint(16)	2	1	0x00010x0064 0x00010x0064 0x00000x03E7		
861 862 900		x x	х		Sequence generator: Sequence cycles Sequence generator: Submit sequence data Sequence generator: Setup for sequence point 1	RW W RW	uint(16) uint(16) float	2 16	1	0x00000x03E/ Coils : Submit Bytes 0-3: U(DC) in V	0x0000 = infinite; 0x00010x03E7 = Number of sequence cycles 0xFF00 = submit Floating point number in IEEE754 format, see device manual for value	
							float float			Bytes 4-7: I(DC) in A Bytes 8-11: P(DC) in W	range, chapter about sequence generator	
J	1	1 1	1	<b>↓</b>	1	↓ DW	float	↓ 10	<b>1</b>	Bytes 12-15: Sequence point time in ms	Integer, 136000000	
1692	х			х	Sequence generator: Setup for sequence point 100	RW	float float float	16	8	Bytes 0-3: U(DC) in V Bytes 4-7: I(DC) in A Bytes 8-11: P(DC) in W	Floating point number in IEEE754 format, see device manual for value range, chapter about sequence generator	
							float			Bytes 12-15: Sequence point time in ms	Integer, 136000000	
9000 9001 9002		x x	X X		Upper limit of voltage set value (U-max) Lower limit of voltage set value (U-min) Upper limit of current set value (I-max)	RW RW	uint(16)	2 2	1	0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide) Voltage value (for translation see programming guide) Current value (for translation see programming guide)	
9003 9004		x x	x		Lower limit of current set value (I-min) Upper limit of power set value (P-max)	RW	uint(16) uint(16)	2		0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide) Power value (for translation see programming guide)	
10007 10008 10010	x x	X X			Ethernet: TCP Keep-Alive Ethernet: DHCP Protocol: Modbus	RW RW RW	uint(16)	2	1	Coils: TCP keep-alive Coils: DHCP on/off Coils: MODBUS on/off	0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = on	
10011	х	х			Protocol: SCPI	RW	uint(16)	2	1	Coils: SCPI on/off	0x0000 = off; 0xFF00 = on	
10502 10504 10506		x x		Х	Ethernet: IP address Ethernet: Subnet mask Ethernet: Gateway	RW RW	uint(8) uint(8) uint(8)	4	2	Bytes 0 - 3: 0255 Bytes 0 - 3: 0255 Bytes 0 - 3: 0255	192.168.0.2 (default) 255.255.255.0 (default) 192.168.0.1 (default)	
10508 10535		x x		Х	Ethernet: Host name Ethernet: Domain name	RW RW	char	54 54	27 27	ASCII ASCII	"Client" (default) "Workgroup" (default)	
10562 10567 10572		x x	x		Ethernet: DNS Ethernet: MAC Ethernet: Port	RW R(W) RW	uint(8) uint(8) uint(16)	6	3	Bytes 0 - 3: 0255 Bytes 0-6: 0255 065536 (except 80)	0.0.0.0 (default) 00:50:C2:C3:12:34 or 00-50-C2-C3-12-34 5025 (default)	
10573	_	х	х		Ethernet: Interface connection timeout in seconds	RW	uint(16)	2		065535	5 sec (default)	
11000 11001		x	x		MPP Tracking: MPP-Mode MPP Tracking: Uoc (Setup)	RW RW	uint(16)	2	1	04 0x0000 - 0xCCCC (0 - 100%)	0 (default), 1 (MPP1), 2 (MPP2), 3 (MPP3), 4 (MPP4) Voltage value in % of Unom (for translation see programming guide)	
11002 11003 11004		x x	x x		MPP Tracking: Ise (Setup) MPP Tracking: Umpp (Setup) MPP Tracking: Impp (Setup)	RW RW	uint(16) uint(16) uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 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 Inom (for translation see programming guide)	
11005 11006		x x	x		MPP Tracking: Pmpp (Setup) MPP Tracking: DeltaP (Setup)	RW RW	uint(16) uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0x6666 (0 - 50%)	Power value in % of Pnom (for translation see programming guide) Power value in % of Pnom (for translation see programming guide)	
11007 11008		x	E		MPP Tracking: Umpp (Result in MPP1/2/4) MPP Tracking: Impp (Result in MPP1/2/4)	R R	uint(16) uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide) Current value in % of Inom (for translation see programming guide)	
11009 11010 11011	x	x			MPP Tracking: Pmpp (Result in MPP1/2/4) MPP Tracking: Start/Stop MPP Tracking: Finished (Function status for MPP1/2/4)	R RW R	uint(16) uint(16) uint(16)	2 2	1	0x0000 - 0xCCCC (0 - 100%)  Coils: Start/Stop  Coils:	Power value in % of Pnom (for translation see programming guide)  0x0000 = stop; 0xFF00 = start  0x0000 = running; 0xFF00 = finished	
11012 11013	x	x	х		MPP Tracking: Fror during function MPP-Tracking: Error during function MPP-Tracking: Interval (Setup)	R	uint(16) uint(16)	2	1	Coils: 0x0005 – 0xEA60	0x0000 = no error; 0xFF00 = error Regulation & measuring interval in milliseconds, either for tracking in mode:	
11014	$\exists$	x	х		MPP4 : Start	RW	uint(16)	2		0x0001 - 0x0064	1 and 2 or for user curve progression in mode 3 Start voltage value out of 100 (related to registers 11100-11199) for use in MPP4 mode	
11015		X	x		MPP4 : End	RW	uint(16)	2		0x0001 - 0x0064	End voltage value out of 100 (related to registers 11100-11199) for use in MPP4 mode	
11016 11100 11120		x x	Х	х	MPP4: Repetitions MPP Tracking: User curve (MPP4 mode) voltage values 1-20 MPP Tracking: User curve (MPP4 mode) voltage values 21-40	RW RW	uint(16) uint(16) uint(16)	40 40	20	0x0000 - 0xFFFF 0x0000 - 0xCCCC (0 - 100%) 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)	
11140 11160		x x		x	MPP Tracking: User curve (MPP4 mode) voltage values 41-60 MPP Tracking: User curve (MPP4 mode) voltage values 61-80	RW RW	uint(16) uint(16)	40 40	20 20	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide) Voltage value in % of Unom (for translation see programming guide)	
11180 11200	_	x	H		MPP Tracking: User curve (MPP4 mode) voltage values 81-100 MPP Tracking: User curve (MPP4 mode) results 1-10 (10x Umon, Imon, Pmon)	RW R	uint(16) uint(16)	40 60		0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom (for translation see programming guide)  Voltage value in % of Unom  Current value in % of Inom	
										0x0000 - 0xCCCC (0 - 100%)	Power value in % of Pnom (for translation see programming guide)	
11230		x			MPP Tracking: User curve (MPP4 mode) results 11-20 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom	
11260	$\dashv$	x			MPP Tracking: User curve (MPP4 mode) results 21-30 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	(for translation see programming guide) Voltage value in % of Unom	
										0x0000 - 0xCCCC (0 - 100%)	Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	
11290		x			MPP Tracking: User curve (MPP4 mode) results 31-40 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom	
11320	+	x			MPP Tracking: User curve (MPP4 mode) results 41-50 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	(for translation see programming guide) Voltage value in % of Unom	
										0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	
11350	Ţ	х			MPP Tracking: User curve (MPP4 mode) results 51-60 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom	
11380	+	x		$\dashv$	MPP Tracking: User curve (MPP4 mode) results 61-70 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	(for translation see programming guide) Voltage value in % of Unom	
	_								_	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	
11410	1	х			MPP Tracking: User curve (MPP4 mode) results 71-80 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Inom Current value in % of Prom Power value in % of Prom	
11440	$\dashv$	x		$\dashv$	MPP Tracking: User curve (MPP4 mode) results 81-90 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%)	(for translation see programming guide) Voltage value in % of Unom	
										0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Current value in % of Inom Power value in % of Pnom (for translation see programming guide)	
	J				MADD T- 15 - 15 - 17 - 17 - 17 - 17 - 17 - 17	_						
11470	+	x			MPP Tracking: User curve (MPP4 mode) results 91-100 (10x Umon, Imon, Pmon)	R	uint(16)	60	30	0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%) 0x0000 - 0xCCCC (0 - 100%)	Voltage value in % of Unom Current value in % of Inom Power value in % of Pnom	