

ELR 9000 3U / EL 9000 B register list for devices with KE firmware from V2.13 (Anybus) / V2.04 (GPIB) (check the installed version in your device's MENU in item ABOUT HW, SW)															
Modbus address	Read coils (0x01)	Read holding registers (0x03)	Write single coil (0x05)	Write single register (0x06)	Write multiple registers (0x10)	Description	Access	Access condition for writing	Data type	Data length in bytes	Number of registers	Data	Example	Profibus slot	Profibus/Profinet index in slot
0	x					Device class	R		uint(16)	2	1		20, 32, 34, 36 = ELR 9000 39 = EL 9000 B	1	0
1	x					Device type	R		char	40	20	ASCII	ELR 9080-170		1 1
21	x					Manufacturer	R		char	40	20	ASCII			1 2
41	x					Manufacturer address	R		char	40	20	ASCII			1 3
61	x					Manufacturer ZIP code	R		char	40	20	ASCII			1 4
81	x					Manufacturer phone number	R		char	40	20	ASCII			1 5
101	x					Manufacturer website	R		char	40	20	ASCII			1 6
121	x					Nominal voltage	R		float	4	2	Floating point number IEEE754	80		1 7
123	x					Nominal current	R		float	4	2	Floating point number IEEE754	170		1 8
125	x					Nominal power	R		float	4	2	Floating point number IEEE754	3500		1 9
127	x					Max. Internal resistance	R		float	4	2	Floating point number IEEE754	12		1 10
129	x					Min. Internal resistance	R		float	4	2	Floating point number IEEE754	0.005		1 11
131	x					Article no.	R		char	40	20	ASCII	33230401		1 12
151	x					Serial no.	R		char	40	20	ASCII	100010002		1 13
171	x			x		User text	RW	REM	char	40	20	ASCII			1 14
191	x					Firmware version (KE)	R		char	40	20	ASCII	V2.01 05.09.2012		1 15
211	x					Firmware version (HMI)	R		char	40	20	ASCII	V2.02 13.08.2012		1 16
231	x					Firmware version (DR)	R		char	40	20	ASCII	V1.5.6		1 17
402	x		x			Remote mode	RW		uint(16)	2	1	Coils : Remote	0x0000 = off; 0xFF00 = on		2 1
405	x		x			DC input	RW	REM	uint(16)	2	1	Coils : Input	0x0000 = off; 0xFF00 = on		2 4
407	x		x			Condition of DC input after power fail alarm	RW	REM	uint(16)	2	1	Coils : Auto-On	0x0000 = off; 0xFF00 = auto-on		3 30
408	x		x	x		Condition of DC input after powering the device	RW	REM	uint(16)	2	1	Reg : Power-On	0xFFFF = off; 0xFFFE = restore		2 6
409	x		x			Operation mode (UIP/UIR)	RW	REM	uint(16)	2	1	Coils : Operation mode	0x0000 = UIP; 0xFF00 = UIR		2 7
410		x				Restart of the device (warm start)	W	REM	uint(16)	2	1	Coils : Restart	0xFF00 = execute		2 8
411		x				Acknowledge alarms	W	REM	uint(16)	2	1	Coils : Alarms	0xFF00 = acknowledge		2 9
416	x		x			Analog interface: Reference voltage (pin VREF)	RW	REM	uint(16)	2	1	Coils : VREF	0x0000 = 10V; 0xFF00 = 5V		2 14
417	x		x			Analog interface: REM-SB level	RW	REM	uint(16)	2	1	Coils : REM-SB Level	0x0000 = normal; 0xFF00 = inverted		2 36
418		x				Analog interface: REM-SB action	RW	REM	uint(16)	2	1	Coils : REM-SB Action	0x0000 = DC off; 0xFF00 = DC auto		2 37
422	x		x			Speed of internal voltage controller	RW	REM	uint(16)	2	1	Coils : Controller speed	0x0000 = slow; 0xFF00 = fast		2 38
500				x		Set voltage value	RW	REM	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Voltage value (for translation see programming guide)		2 23
501	x		x			Set current value	RW	REM	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Current value (for translation see programming guide)		2 24
502	x		x			Set power value	RW	REM	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Power value (for translation see programming guide)		2 25
503		x		x		Set resistance value	RW	REM	uint(16)	2	1	variable - 0xCCCC (x - 100%) Minimum value needs to be calculated, refer to programming guide	Resistance value (for translation see programming guide)		2 26
505		x				Device state	R		uint(32)	4	2	Bit 0- 4: Control location Bit 5 : - Bit 6 : Master-slave type Bit 7 : Input state Bit 8 : - Bit 9-10: Regulation mode Bit 11 : Remote Bit 12 : - Bit 13 : Function mode Bit 14 : External sense Bit 15 : Alarms Bit 16 : OVP Bit 17 : OCP 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 Bit 26 : UCD Bit 27 : OCD Bit 28 : OPD Bit 29 : MSS Bit 30 : REM-SB	0x00 = free; 0x01 = local; 0x03 = USB; 0x04 = analog; 0x05 = Profibus; 0x06 = Ethernet; 0x08 = Master/Slave; 0x09 = RS232; 0x10 = CANopen; 0x11 = Devicenet; 0x12 = Modbus TCP 1P; 0x13 = Profinet 1P; 0x14 = Ethernet 1P; 0x15 = Ethernet 2P; 0x16 = Modbus TCP 2P; 0x17 = Profinet 2P; 0x18 = GPIB; 0x19 = CAN	2	27
507	x					Actual voltage	R		uint(16)	2	1	0x0000 - 0xFFFD (0 - 125%)	Actual voltage (for translation see programming guide)		2 28
508	x					Actual current	R		uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)		2 29
509	x					Actual power	R		uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)		2 30
520	x					Count of OV alarms since power up	R		uint(16)	2	1	0x0000 - 0xFFFF	Count		2 31
521	x					Count of OC alarms since power up	R		uint(16)	2	1	0x0000 - 0xFFFF	Count		2 32
522	x					Count of OP alarms since power up	R		uint(16)	2	1	0x0000 - 0xFFFF	Count		2 33
523	x					Count of OT alarms since power up	R		uint(16)	2	1	0x0000 - 0xFFFF	Count		2 34
524	x					Count of PF alarms since power up	R		uint(16)	2	1	0x0000 - 0xFFFF	Count		2 35
550		x		x		Overvoltage protection threshold (OVP)	RW	REM	uint(16)	2	1	ELR : 0x0000 - 0xE147 (0 - 110%) EL 9000 : 0x0000 - 0xD2F1 (0 - 103%)	OVP threshold (for translation see programming guide)		3 0
553	x		x			Overcurrent protection threshold (OCP)	RW	REM	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)		3 3
556	x		x			Overpower protection threshold (OPP)	RW	REM	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)		3 6
559	x		x			Undervoltage detection (UVD)	RW	REM	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	UVD threshold (for translation see programming guide)		3 9
560	x		x			Adjustable UVD notification	RW	REM	uint(16)	2	1	Coils : Adjustable UVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm		3 10
561	x		x			Overvoltage detection (OVD)	RW	REM	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	OVD threshold (for translation see programming guide)		3 11
562	x		x			Adjustable OVD notification	RW	REM	uint(16)	2	1	Coils : Adjustable OVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm		3 12
563	x		x			Undercurrent detection (UCD)	RW	REM	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	UCD threshold (for translation see programming guide)		3 13
564	x		x			Adjustable UCD notification	RW	REM	uint(16)	2	1	Coils : Adjustable UCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm		3 14
565	x		x			Overcurrent detection (OCD)	RW	REM	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	OCD threshold (for translation see programming guide)		3 15
566	x		x			Adjustable OCD notification	RW	REM	uint(16)	2	1	Coils : Adjustable OCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm		3 16
567	x		x			Overpower detection (OPD)	RW	REM	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	OPD threshold (for translation see programming guide)		3 17
568	x		x			Adjustable OPD notification	RW	REM	uint(16)	2	1	Coils : Adjustable OPD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm		3 18
650	x		x			Master-slave: Link mode	RW	REM	uint(16)	2	1	Coils : Mode	0x0000 = Slave; 0xFF00 = Master		4 0
651		x		x		Master-slave: Address	RW	REM	uint(16)	2	1	Reg : Address			