

Modbus address (dec)	Modbus address (hex)	Read code (0x01)	Read holding registers (0x03)	Write single coil (0x05)	Write multiple registers (0x0F)	Description	Access	Data type	Bit length in bytes	Number of registers	Data	Example	Profibus slot / Profinet subnet	Profibus/Profinet index in act. EtherCAT SDO/DO07	
0	0x0000	x				Device class	R	char	40	20	ASCII	07 = ELR 10000 Series	0	0	x
1	0x0001	x				Device type	R	char	40	20	ASCII	ELR 10080-1000	1	1	x
21	0x0015	x				Manufacturer	R	char	40	20	ASCII		1	2	x
41	0x0029	x				Manufacturer address	R	char	40	20	ASCII		1	3	x
61	0x003D	x				Manufacturer 2P code	R	char	40	20	ASCII		1	4	x
81	0x0051	x				Manufacturer phone number	R	char	40	20	ASCII		1	5	x
101	0x0065	x				Manufacturer website	R	char	40	20	ASCII		1	6	x
121	0x0079	x				Nominal voltage	R	float	4	2	Floating point number IEEE754	80	1	7	x
123	0x007B	x				Nominal current	R	float	4	2	Floating point number IEEE754	1000	1	8	x
125	0x007D	x				Nominal power	R	float	4	2	Floating point number IEEE754	30000	1	9	x
127	0x007F	x				Max. internal resistance	R	float	4	2	Floating point number IEEE754	0	1	10	x
129	0x0081	x				Min. internal resistance	R	float	4	2	Floating point number IEEE754	0.003	1	11	x
131	0x0083	x				Article no.	R	char	40	20	ASCII	33200800	1	12	x
151	0x0097	x				Serial no.	R	char	40	20	ASCII	1234560001	1	13	x
171	0x00AB	x		x		User text	RW	char	40	20	ASCII		1	14	x
191	0x00BF	x				Firmware version (KE)	R	char	40	20	ASCII		1	15	x
211	0x00D3	x				Firmware version (DIP)	R	char	40	20	ASCII		1	16	x
231	0x00E7	x				Firmware version (DIP)	R	char	40	20	ASCII		1	17	x
402	0x0192	x	x			Remote mode	RW	uint16	2	1	Coil - Remote	0x0000 = off; 0xFF00 = on	2	1	x
405	0x0195	x	x			DC input	RW	uint16	2	1	Coil - OutputInput	0x0000 = off; 0xFF00 = on	2	4	x
407	0x0197	x	x			Condition of DC input after power fail alarm	RW	uint16	2	1	Coil - Auto-On	0x0000 = off; 0xFF00 = auto	3	30	x
409	0x0199	x	x			Condition of DC input after warning the device	RW	uint16	2	1	Reg - Power-ON	0x0000 = off; 0xFF00 = warning	2	8	x
409	0x0199	x	x			Operation mode (UP/UR)	RW	uint16	2	1	Coil - Operation mode	0x0000 = UP; 0xFF00 = UR	2	7	x
410	0x019A	x				Restart of the device (warning start)	W	uint16	2	1	Coil - Restart	0xFF00 = execute	2	8	x
411	0x019B	x				Acknowledge alarm	W	uint16	2	1	Coil - Alarms	0xFF00 = acknowledge	2	9	x
416	0x01A4	x	x			Analog interface: Reference voltage (pin VREF)	RW	uint16	2	1	Coil - VREF	0x0000 = 10V; 0xFF00 = 5V	2	14	x
417	0x01A5	x	x			Analog interface: REM-SB level	RW	uint16	2	1	Coil - REM-SB Level	0x0000 = normal; 0xFF00 = uncharged	2	12	x
418	0x01A6	x	x			Analog interface: REM-SB action	W	uint16	2	1	Coil - REM-SB Action	0x0000 = off; 0xFF00 = auto	2	13	x
425	0x01A9	x	x			Condition of DC input after leaving remote	R	uint16	2	1	Coil - Condition	0x0000 = off; 0xFF00 = interlocked	2	42	x
432	0x01BA	x	x			Reset device to factory settings	RW	uint16	2	1	Coil - Condition	0xFF00 = Trigger reset	2	43	x
440	0x01B8	x	x	x		Analog interface: Pin 14 configuration	RW	uint16	2	1	Alarms 1	0x0000 = OVP (default); 0x0001 = OCP; 0x0002 = OPP; 0x0003 = OVP + OCP; 0x0004 = OVP + OCP + OPP; 0x0005 = OCP + OCP; 0x0006 = OVP + OCP + OPP	2	44	x
441	0x01B9	x	x	x		Analog interface: Pin 6 configuration	RW	uint16	2	1	Alarms 2	0x0000 = OT + PF (default); 0x0001 = OT; 0x0002 = PF	2	45	x
442	0x01BA	x	x	x		Analog interface: Pin 15 configuration	RW	uint16	2	1	Status DC / reg. mode	0x0000 = CV; 0x0001 = DC input status	2	46	x
500	0x01F4	x	x	x		Set voltage value	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	23	x
501	0x01F5	x	x	x		Set current value or irradiation (PV function)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	Current value (for translation see programming guide) / Irradiation	2	24	x
502	0x01F6	x	x	x		Set power value	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	Power value (for translation see programming guide)	2	25	x
503	0x01F7	x	x	x		Set resistance value	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	Resistance value (for translation see programming guide)	2	26	x
505	0x01F9	x				Device state	R	uint32	4	2	Bit 0 - 4: Control location Bit 5 - Config mode Bit 6 - Master-slave type Bit 7 - Output state Bit 8 - Regulation mode Bit 11 - Remote Bit 13 - Function generator Bit 14 - External sense Bit 15 - Alarms Bit 16 - OVP Bit 17 - OCP Bit 18 - 1 = active Bit 19 - OT Bit 21-23: Power fail Bit 24 - UVD Bit 25 - OVD Bit 26 - UCD Bit 27 - OCP Bit 28 - OPD Bit 29 - MSP Bit 30 - REM-SB Bit 31 - MSP	0x00 = free; 0x01 = locat; 0x03 = USB; 0x04 = analog; 0x05 = Profibus; 0x06 = Ethernet; 0x08 = MasterSlave; 0x09 = RS232; 0x10 = CANopen; 0x12 = Modbus TCP; 0x13 = Profinet 1P; 0x14 = Ethernet IP; 0x15 = Ethernet 2P; 0x16 = Modbus TCP 2P; 0x17 = Profinet 2P; 0x18 = GPB; 0x19 = CAN; 0x1A = EtherCAT	2	27	x
507	0x01FB	x				Actual voltage	R	uint16	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)	2	28	x
508	0x01FC	x				Actual current	R	uint16	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)	2	29	x
509	0x01FD	x				Actual power	R	uint16	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)	2	30	x
511	0x01FF	x				Device state 2	R	uint32	4	2	Bit 0 - reserved Bit 1 - SF alarm	0 = none; 1 = active	2	19	
520	0x0208	x				Count of OV alarms since power up	R	uint16	2	1	0x0000 - 0xFFFF	Count	3	20	x
521	0x0209	x				Count of OC alarms since power up	R	uint16	2	1	0x0000 - 0xFFFF	Count	3	21	x
522	0x020A	x				Count of OP alarms since power up	R	uint16	2	1	0x0000 - 0xFFFF	Count	3	22	x
523	0x020B	x				Count of OT alarms since power up	R	uint16	2	1	0x0000 - 0xFFFF	Count	3	23	x
524	0x020C	x				Count of PF alarms since power up	R	uint16	2	1	0x0000 - 0xFFFF	Count	3	24	x
550	0x0228	x	x	x		Overvoltage protection threshold (OVP)	RW	uint16	2	1	0x0000 - 0x0E17 (0 - 110%)	OVP threshold (for translation see programming guide)	3	0	x
551	0x0229	x	x	x		Overcurrent protection threshold (OCP)	RW	uint16	2	1	0x0000 - 0x0E17 (0 - 110%)	OCP threshold (for translation see programming guide)	3	3	x
552	0x022C	x	x	x		Overpower protection threshold (OPP)	RW	uint16	2	1	0x0000 - 0x0E17 (0 - 110%)	OPP threshold (for translation see programming guide)	3	8	x
559	0x022F	x	x	x		Undervoltage detection (UVD)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	UVD threshold (for translation see programming guide)	3	9	x
560	0x0230	x	x	x		Adjustable UVD notification	RW	uint16	2	1	Adjustable UVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	10	x
561	0x0231	x	x	x		Overvoltage detection (OVD)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	OVD threshold (for translation see programming guide)	3	11	x
562	0x0232	x	x	x		Adjustable OVD notification	RW	uint16	2	1	Adjustable OVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	12	x
563	0x0233	x	x	x		Undercurrent detection (UCD)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	UCD threshold (for translation see programming guide)	3	13	x
564	0x0234	x	x	x		Adjustable UCD notification	RW	uint16	2	1	Adjustable UCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	14	x
565	0x0235	x	x	x		Overcurrent detection (OCD)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	OCD threshold (for translation see programming guide)	3	15	x
566	0x0236	x	x	x		Adjustable OCD notification	RW	uint16	2	1	Adjustable OCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	16	x
567	0x0237	x	x	x		Overpower detection (OPD)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	OPD threshold (for translation see programming guide)	3	17	x
568	0x0238	x	x	x		Adjustable OPD notification	RW	uint16	2	1	Adjustable OPD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	18	x
577	0x0241	x	x	x		Condition of DC output/input after OT alarm	RW	uint16	2	1	Reg-Condition	0x0000 = off; 0x0001 = restore (default)	3	37	
600	0x026A	x	x			Master-slave: Link mode on MS bus	RW	uint16	2	1	Coil-Mode	0x0000 = Slave; 0xFF00 = Master	4	0	x
653	0x028D	x	x			Master-slave: Enable MS	RW	uint16	2	1	Coil-MS on/off	0x0000 = off; 0xFF00 = on	4	3	x
654	0x028E	x	x			Master-slave: Init MS	W	uint16	2	1	Coil-MS start	0xFF00 = Start Init	4	4	x
655	0x028F	x	x			Master-slave: Condition	R	uint16	2	1	Reg-MS status	0x0000 = not released; 0x0001 = init running; 0x0003 = set default; 0x0004 = setup interface; 0x0005 = assignment; 0xFFFC = disrupted; 0xFFFF = different models detected; init not OK; 0xFFFE = error; 0xFFFF = init OK	4	5	x
656	0x0290	x				Master-slave: Total voltage in V	R	float	4	2	Floating point number IEEE754	500	4	6	x
658	0x0292	x				Master-slave: Total current in A	R	float	4	2	Floating point number IEEE754	800	4	7	x
660	0x0294	x				Master-slave: Total power in W	R	float	4	2	Floating point number IEEE754	150000	4	8	x
662	0x0296	x				Master-slave: Number of initialised slaves	R	uint16	2	1		1...63	4	9	x
666	0x029A	x				Master-slave: Bus termination	R	uint16	2	1	Coil - Termination	0x0000 = off; 0xFF00 = on	4	10	x
667	0x029B	x				Master-slave: Bus bias	R	uint16	2	1	Coil - Bias	0x0000 = off; 0xFF00 = on	4	11	x
850	0x0352	x	x			Function generator: Arbitrary: Start/stop	RW	uint16	2	1	Coil - Start/Stop	0x0000 = Stop; 0xFF00 = Start	5	0	x
851	0x0353	x	x			Function generator: Arbitrary: Select U	RW	uint16	2	1	Coil - U	0x0000 = not assigned; 0xFF00 = Assign function to voltage	5	1	x
852	0x0354	x	x			Function generator: Arbitrary: Select I	RW	uint16	2	1	Coil - I	0x0000 = not assigned; 0xFF00 = Assign function to current	5	2	x
854	0x0356	x	x			Function generator: XY: Select U-I mode	RW	uint16	2	1	Coil - U-I	0x0000 = not assigned; 0xFF00 = Assign function to U-I curve	5	4	x
855	0x0357	x	x			Function generator: XY: Select I-U mode	RW	uint16	2	1	Coil - I-U	0x0000 = not assigned; 0xFF00 = Assign function to I-U curve	5	5	x
856	0x0358	x	x			Function generator: XY: Select mode	RW	uint16	2	1	Reg-Mode	0x0000 = deactivated; 0x0001 = I-U	5	14	x
859	0x035B	x	x			Function generator: Arbitrary: Start sequence	RW	uint16	2	1	0x0001...0x0063		5	9	x
860	0x035C	x	x			Function generator: Arbitrary: End sequence	RW	uint16	2	1	0x0001...0x0063		5	10	x
861	0x036D	x	x			Function generator: Arbitrary: Sequence cycles	RW	uint16	2	1	0x0000...0x00E7	0x0000 = Submits	5	11	x
862	0x036E	x	x			Function generator: Arbitrary: Submit settings (only required for CAN, CANopen, EtherCAT CoE)	W	uint16	2	1	Coil - Submit Arbitrary	0xFF00 = Submit settings			
900	0x0384	x		x		Function generator: Arbitrary: Setup for sequence 1	RW	float	32	16	Bytes 0-3: U/Ia(IaC) in V or A Bytes 4-7: U/Ia(IaC) in V or A Bytes 8-11: Ia(I/I) in Hz Bytes 12-15: Ia(I/I) in Hz Bytes 16-19: Angle in degrees Bytes 20-23: U/Ia(IaC) in V or A Bytes 24-27: U/Ia(IaC) in V or A Bytes 28-31: Sequence time in µs	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator Integer in IEEE754 format: 0...10000 Hz Integer in IEEE754 format: 0...10000 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: 100 µs...36.000.000 µs	6	0	x
2468	0x09A4	x		x		Function generator: Arbitrary: Setup for sequence 99	RW	float	32	16	Bytes 0-3: U/Ia(IaC) in V or A Bytes 4-7: U/Ia(IaC) in V or A Bytes 8-11: Ia(I/I) in Hz Bytes 12-15: Ia(I/I) in Hz Bytes 16-19: Angle in degrees Bytes 20-23: U/Ia(IaC) in V or A Bytes 24-27: U/Ia(IaC) in V or A Bytes 28-31: Sequence time in µs	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator Integer in IEEE754 format: 0...10000 Hz Integer in IEEE754 format: 0...10000 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: 100 µs...36.000.000 µs	6	99	x
2600	0x0A28	x		x		Function generator: XY: table, block 0	RW	uint16	32	16	U mode: set voltage value I mode: set current value (16 values block)	value = real set value of voltage * 0.8 / U _{nom} * 32768 or value = real set value of current * 0.8 / I _{nom} * 32768	7	0	x
6680	0x1A18	x		x		Function generator: XY: table, block 255	RW	uint16	32	16	U mode: set voltage value I mode: set current value (16 values block)	value = real set value of voltage * 0.8 / U _{nom} * 32768 or value = real set value of current * 0.8 / I _{nom} * 32768	7	255	x
9000	0x2328	x	x			Upper limit of voltage set value (U-max)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	31	x
9001	0x2329	x	x			Lower limit of voltage set value (U-min)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	32	x
9002	0x232A	x	x			Upper limit of current set value (I-max)	RW	uint16	2	1	0x0000 - 0x00E5 (0 - 102%)	Current value (for translation see programming guide)	2	33	x
9003	0x232B	x	x			Lower limit of current set value (I-min)	RW	uint16	2	1					