

Modbus protokol for ES874 LSC model Regulator		from FW ver 2.7					
Mode:	RTU	(MSB first)					
Standard:	Modbus application protokol specification V1.1a Modbus over serial lin V1.02						
WWW adresse	Modbus.org						
Baud	0=Modbus Off, 1=9600, 2=19200	default	0				
Start bits	1	default	1				
Parity	Even	default	Even				
Address	1-247	default	50				
Registers Map							
Support function	3,4,6,17					remark timeout at fct6 -> 2000ms	
Register number	Data description	R/W	Length	Units	Valid response	Remarks	
3x0000	out 1 [%]	R	1	UINT16	0-100 %	Terminal 1+2	
3x0001	out 2 [%]	R	1	UINT16	0-100 %	Terminal 3+4	
3x0002	in1 [%]	R	1	UINT16	0-100 %	Terminal 5+6	
3x0003	in2 [%]	R	1	UINT16	0-100 %	Terminal 7+8	
3x0004	intern NTC [x0.1]	R	1	INT16	-400-600	-400=-40 deg °C	
3x0005	Ekstern NTC1 NTC [x0.1]	R	1	INT16	-400-600	-400=-40 deg °C	
3x0006	Ekstern NTC2 NTC [x0.1]	R	1	INT16	-400-600	-400=-40 deg °C	
3x0007	Relay State	R	1	UINT16	0-1		
3x0008	Current Reg1 setpoint	R	1	INT16		dep. of input E1	
3x0009	Current Input value	R	1	INT16		dep. of input E1	
3x0010	Current PID1 value	R	1	UINT16	0-1000		
3x0011	Current PID2 value	R	1	UINT16	0-1000		
3x0012	Program Version	R	1	UINT16	0-65535	MSB byte=Ver LSB=Subv	
3x0013	PIR timer [s]	R	1	UINT16	0-3600		
3x0017	Current Reg2 setpoint	R	1	UINT16		dep. of input E41	
3x0018	Current Reg2 input value	R	1	UINT16		dep. of input E41	
3x0019	Current Runmode 0=off 1=Normal 2=alternativ	R	1	UINT16	0-2		
4x0000	C2	R/W	1	UINT16		Use fct6 to write	
4x0001	F1	R/W	1	UINT16		Use fct6 to write	
4x0002	F2	R/W	1	UINT16		Use fct6 to write	
4x0003	F3	R/W	1	UINT16		Use fct6 to write	
4x0004	F4	R	1	UINT16			
4x0005	E53	R/W	1	UINT16		Use fct6 to write	
4x0006	E52	R/W	1	UINT16		Use fct6 to write	
4x0007	E54	R/W	1	UINT16		Use fct6 to write	
4x0008	C1	R/W	1	UINT16		Use fct6 to write	
4x0009	C3	R/W	1	UINT16		Use fct6 to write	
4x0010	E7	R/W	1	UINT16		Use fct6 to write	
4x0011	E1	R	1	UINT16			
4x0012	E2	R/W	1	UINT16		Use fct6 to write	
4x0013	E8	R/W	1	UINT16		Use fct6 to write	
4x0014	E9	R/W	1	UINT16		Use fct6 to write	
4x0015	E10	R/W	1	UINT16		Use fct6 to write	
4x0016	E11	R/W	1	UINT16		Use fct6 to write	
4x0017	E12	R/W	1	UINT16		Use fct6 to write	
4x0018	E5	R/W	1	UINT16		Use fct6 to write	
4x0019	E6	R/W	1	UINT16		Use fct6 to write	
4x0020	E3	R/W	1	UINT16		Use fct6 to write	

4x0021	E13	R/W	1	UINT16		Use fct6 to write
4x0022	E14	R/W	1	UINT16		Use fct6 to write
4x0023	E15	R/W	1	UINT16		Use fct6 to write
4x0024	E16	R/W	1	UINT16		Use fct6 to write
4x0025	E17	R/W	1	UINT16		Use fct6 to write
4x0026	E18	R/W	1	UINT16		Use fct6 to write
4x0027	E19	R/W	1	UINT16		Use fct6 to write
4x0028	E4	R	1	UINT16		
4x0029	E20	R/W	1	UINT16		Use fct6 to write
4x0030	E21	R/W	1	UINT16		Use fct6 to write
4x0031	E22	R/W	1	UINT16		Use fct6 to write
4x0032	E23	R/W	1	UINT16		Use fct6 to write
4x0033	C7	R	1	UINT16		
4x0034	E24	R	1	UINT16		
4x0035	C5	R/W	1	UINT16		Use fct6 to write
4x0036	Day light saving time	R/W	1	UINT16		Use fct6 to write
4x0037	C6	R/W	1	UINT16		Use fct6 to write
4x0038	E25	R/W	1	UINT16		Use fct6 to write
4x0039	E26	R/W	1	UINT16		Use fct6 to write
4x0040	E27	R/W	1	UINT16		Use fct6 to write
4x0041	E28	R/W	1	UINT16		Use fct6 to write
4x0042	E29	R/W	1	UINT16		Use fct6 to write
4x0043	E30	R/W	1	UINT16		Use fct6 to write
4x0044	E31	R/W	1	UINT16		Use fct6 to write
4x0045	E32	R/W	1	UINT16		Use fct6 to write
4x0046	E33	R/W	1	UINT16		Use fct6 to write
4x0047	E34	R/W	1	UINT16		Use fct6 to write
4x0048	E35	R/W	1	UINT16		Use fct6 to write
4x0049	E36	R/W	1	UINT16		Use fct6 to write
4x0050	E37	R/W	1	UINT16		Use fct6 to write
4x0051	E38	R	1	UINT16		
4x0052	C11	R/W	1	UINT16		Use fct6 to write
4x0053	E40	R/W	1	UINT16		Use fct6 to write
4x0054	E41	R	1	UINT16		
4x0055	E42	R/W	1	UINT16		Use fct6 to write
4x0056	C8	R/W	1	UINT16		Use fct6 to write
4x0057	E43	R/W	1	UINT16		Use fct6 to write
4x0058	C10	R/W	1	UINT16		Use fct6 to write
4x0059	E46	R/W	1	UINT16		Use fct6 to write
4x0060	E47	R/W	1	UINT16		Use fct6 to write
4x0061	E48	R/W	1	UINT16		Use fct6 to write
4x0062	E49	R/W	1	UINT16		Use fct6 to write
4x0063	E50	R/W	1	UINT16		Use fct6 to write
4x0064	E51	R/W	1	UINT16		Use fct6 to write
4x0065	C12	R/W	1	UINT16		Use fct6 to write
4x0066	E61	R/W	1	UINT16		Use fct6 to write
4x0067	E62	R/W	1	UINT16		Use fct6 to write
4x0068	E63	R/W	1	UINT16		Use fct6 to write
4x0200	Timer	R/W		UINT16	0-23	Use fct6 to write
4x0201	Minuter	R/W		UINT16	0-59	Use fct6 to write
4x0202	Dag	R/W		UINT16	1-7	Use fct6 to write
4x0203	Dato	R/W		UINT16	1-31	Use fct6 to write
4x0204	Måned	R/W		UINT16	1-12	Use fct6 to write
4x0205	År	R/W		UINT16	0-99	Use fct6 to write

4x0700	Runmode Regulator 0=standby 1=Normal 2=Alternativ	R/W		UINT16	0-2	Use fct6 to write
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