

Modbus protokol for ES874 LSC model Manual regulator						
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			
Data bits		8 default	8			
Stop Bits	1	default	1			
Parity	Even	default	Even			
Address	1-247	default	50			
Registers Map						
Support function	4,6,17					
Register number	Data description	R/W	Length	Units	Valid response	Remarks
4x0000	C1 Niveau	R/W	1	UINT16		Def:50 Min 0 Max 100
4x0001	C2 KalenderOnOff	R/W	1	UINT16		Def:0 Min 0 Max 1
4x0002	C3 BoostTime (0-250sek)	R/W	1	UINT16		Def:5 Min 0 Max 250
4x0003	E1 Mode (1=ON/OFF 2=0-100%)	R/W	1	UINT16		Def:1 Min 1 Max 2
4x0004	E2 Udgang min	R/W	1	UINT16		Def:0 Min 0 Max 50
4x0005	E3 Udgang maks	R/W	1	UINT16		Def:100 Min 50 Max 100
4x0006	E4 Start Niveau	R/W	1	UINT16		Def:3 Min 1 Max 3
4x0007	E5 Inverter Udgang	R/W	1	UINT16		Def:0 Min 0 Max 1
4x0100	F1 ModbusAdres (1-247)	R/W	1	UINT16	1-247	1-247
4x0101	F2 Modbus baudrate	R/W	1	UINT16	0-2	0=Modbus Off, 1=9600, 2=19200
4x0102	F3 Modbus Paritet	R/W	1	UINT16	1-3	1=EVEN 2=ODD 3=NONE
4x0103	F4 ModbusAllowWrite	R	1	UINT16	0-1	0=Not allow 1=Allow
4x0200	Timer	R/W		UINT16	0-23	
4x0201	Minuter	R/W		UINT16	0-59	
4x0202	Dag	R/W		UINT16	1-7	
4x0203	Dato	R/W		UINT16	1-31	
4x0204	Måned	R/W		UINT16	1-12	
4x0205	År	R/W		UINT16	0-99	0= år 2000
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

Register number	Data description	R/W	Length	Units	Valid response	Remarks
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	