

## Software protocol MODBUS-RTU

Modbus RTU

Communication Settings:

9600 baud

8 data bits

No parity

1 stop bit

Supported Functions:

<b>Read Register (3)</b>		
Request:	Response:	Exceptions:
Byte 0 : FC = 0x3	Byte 0 : FC = 0x3	Byte 0 : FC = 0x83
Byte 1-2: Address	Byte 1 : Number of bytes	Byte 1 : 0x02 (Illegal adres)
Byte 3-4 : Number	Byte 2-n: Values	

<b>Write Register (6)</b>		
Request:	Response:	Exceptions:
Byte 0: FC = 0x06	Byte 0: FC = 0x06	Byte 0: FC = 0x86
Byte 1-2: Address	Byte 1-2: Address	Byte 1: 0x02 (Illegal address)
Byte 3-4: New value	Byte 3-4: New value	0x03 (Illegal value)

<b>Read actual value (4)</b>		
Request:	Response:	Exceptions:
Byte 0: FC = 0x04	Byte 0: FC = 0x04	Byte 0: FC = 0x84
Byte 1-2: Address	Byte 1-2: Number of bytes	Byte 1: 0x02 (Illegal address)
Byte 3-4: Number	Byte 3-4: Values	

<b>Request slave ID (17)</b>		
Request:	Response:	Exceptions:
Byte 0: FC = 0x11	Byte 0: FC = 0x11	None
	Byte 1: Number of bytes	
	Byte 2: Slave ID	
	Byte 3: Status	
	(0 = OFF, 0xFF = ON)	

<b>Illegal function (all nog listed Requests)</b>		
Example Request:	Response:	Exceptions:
Byte 0: FC = 0x02	None	Byte 0: FC = 0x82
		Byte 1: 0x01 (Illigal function)