

SP modbus examples		READ					
modbus registers are 16 bit, all SPDM registers can be accessed as holding registers, cmd 03							
32 bit values will be read by two successive reads (little endian, lsw first), which can be made transparent by using word count							
outlets, whose registers are limited to 27, may have an extended range, up to 48. These extra 21 outlets can be accessed either by adding 10.000 to the register, or by reading the input register using command 04.							
	SPDM spec	Modbus Request			Modbus Response		Modbus data type
							interpret as:
name	idspdm						
register	100	Function code	1 Byte	0x03	Function code	1 Byte	0x03
type	int	Starting Address	2 Bytes	0x0064	Byte Count (2 x N*)	1 Byte	0x02
length (bytes)	2	Number of Registers (*N)	2 Bytes	0x0001	Register value (N* x 2 bytes)	2 Bytes	0x0066
sample data transmission:		TX 00 34 00 00 00 06 01 03 00 64 00 01			RX 00 34 00 00 00 05 01 03 02 00 66		
<i>note: this is the generic data type used in Modbus</i>							
name	cfnrph						
register	200	Function code	1 Byte	0x03	Function code	1 Byte	0x03
type	int	Starting Address	2 Bytes	0x00C8	Byte Count (2 x N*)	1 Byte	0x02
length (bytes)	1	Number of Registers (*N)	2 Bytes	0x0001	Register value (N* x 2 bytes)	2 Bytes	0x0003
<i>note: this is basically the same as a 16 bit int</i>							
name	imvoac						
register	3036	Function code	1 Byte	0x03	Function code	1 Byte	0x03
type	fd	Starting Address	2 Bytes	0x0BDC	Byte Count (2 x N*)	1 Byte	0x04
length (bytes)	2	Number of Registers (*N)	2 Bytes	0x0002	Register value (N* x 2 bytes)	2 Bytes	0x33334366
<i>note: these consist of two consecutive 16 bit registers</i>							
name	imkwht						
register	3000	Function code	1 Byte	0x03	Function code	1 Byte	0x03
type	int	Starting Address	2 Bytes	0x0BB8	Byte Count (2 x N*)	1 Byte	0x04
length (bytes)	3	Number of Registers (*N)	2 Bytes	0x0002	Register value (N* x 2 bytes)	4 Bytes	0x86D400BE
<i>note: these consist of two consecutive 16 bit registers</i>							
name	idpart	Request			Response		
register	120	Function code	1 Byte	0x03	Function code	1 Byte	0x03
type	ascii	Starting Address	2 Bytes	0x0078	Byte Count (2 x N*)	1 Byte	0x10
length (bytes)	16	Number of Registers (*N)	2 Bytes	0x0008	Register value (N* x 2 bytes)	16 Bytes	0x4142..0x5051
<i>note: these consist of multiple consecutive 16 bit registers</i>							

