EM-408 Modbus Register Map

BCD
Binary Coded Decimal

Register	Offset	Value	Read/Write	Format	Description
30001	0	Total active energy - Hi	R	8 digit BCD	divide by 100 to obtain actual value in KWh
30002	1	Total active energy - Lo	R		
30003	2	Import active energy - Hi	R	8 digit BCD	divide by 100 to obtain actual value in KWh
30004	3	Import active energy - Lo	R		
30005	4	Export active energy - Hi	R	8 digit BCD	divide by 100 to obtain actual value in KWh
30006	5	Export active energy - Lo	R		
30007	6	Voltage - Hi	R	8 digit BCD	divide by 10 to obtain actual value in volts
30008	7	Voltage - Lo	R		
30009	8	Current - Hi	R	8 digit BCD	divide by 1000 to obtain actual value in amps
30010	9	Current - Lo	R		
30011	10	Active power - Hi	R	8 digit BCD	divide by 10 to obtain actual value in watts
30012	11	Active power - Lo	R		
30017	16	Power factor - Hi	R	8 digit BCD	divide by 1000 to obtain actual value
30018	17	Power factor - Lo	R		
30019	18	Frequency - Hi	R	8 digit BCD	divide by 100 to obtain actual value in Hz
30020	19	Frequency - Lo	R		
30021	20	Serial number - Hi	R/W	8 digit BCD	eg. 12345678
30022	21	Serial number - Lo	R/W		
30023	22	Pulse constant - Hi	R	8 digit BCD	2000
30024	23	Pulse constant - Lo	R		
30025	24	Address	R/W	16 bit unsigned integer	1 to 247
30026	25	Number of displays	R	16 bit unsigned integer	1 to 14
30027	26	Number of displays	W	16 bit unsigned integer	1 to 14
30027	26	Duration of each display	R	16 bit unsigned integer	1 to 65535 (in seconds)
30028	27	Duration of each display	W	16 bit unsigned integer	1 to 65535 (in seconds)
30028	27	Digits after decimal point	R	16 bit unsigned integer	1 or 2
30029	28	Digits after decimal point	W	16 bit unsigned integer	1 or 2
30030	29	Baud rate	R/W	16 bit unsigned integer	4-(1200), 8-(2400), 16-(4800) or 32-(9600)
30033	32	Display screen 1	R/W	16 bit unsigned integer	specific value (see notes)
30034	33	Display screen 2	R/W	16 bit unsigned integer	specific value (see notes)
30035	34	Display screen 3	R/W	16 bit unsigned integer	specific value (see notes)
30036	35	Display screen 4	R/W	16 bit unsigned integer	specific value (see notes)
30037	36	Display screen 5	R/W	16 bit unsigned integer	specific value (see notes)
30038	37	Display screen 6	R/W	16 bit unsigned integer	specific value (see notes)
30039	38	Display screen 7	R/W	16 bit unsigned integer	specific value (see notes)
30040	39	Display screen 8	R/W	16 bit unsigned integer	specific value (see notes)
30041	40	Display screen 9	R/W	16 bit unsigned integer	specific value (see notes)
30042	41	Display screen 10	R/W	16 bit unsigned integer	specific value (see notes)
30043	42	Display screen 11	R/W	16 bit unsigned integer	specific value (see notes)
30044	43	Display screen 12	R/W	16 bit unsigned integer	specific value (see notes)
30045	44	Display screen 13	R/W	16 bit unsigned integer	specific value (see notes)
30046	45	Display screen 14	R/W	16 bit unsigned integer	specific value (see notes)
30069	68	CT ratio	R/W	16 bit unsigned integer	multiply by 5 to obtain actual value
30081	80	Parity	R/W	16 bit unsigned integer	0-(even), 1-(odd) or 2-(none)

Display screen values

0x0010 - Total active energy
0x0030 - Import active energy
0x0050 - Export active energy
0x0060 - Voltage
0x0070 - Current
0x0080 - Active power
0x00F0 - Power factor
0x00E0 - Frequency
0x00C0 - Serial number Hi
0x00B0 - Serial number Lo
0x00D0 - Pulse constant
0x00A0 - Address
0x0090 - Baud rate