

## MODBUS REGISTER TABLE

EM-07

MODBUS REGISTER TABLE							
ADDRESS (DEC)	ADDRESS (HEX)	REGISTER	R/W	RANGE	UNIT	MULTIPLIER	FORMAT
4000	FA0	Voltage Transformer Ratio(VTR)	R	1-999	-	1	Unsigned 16-bit
4001	FA1	Current Transformer Ratio(CTR)	R	1 - 2000	-	1	Unsigned 16-bit
4002	FA2	Voltage L1-N	R	-	V	0,1 x VTR	Unsigned 16-bit
4003	FA3	Voltage L2-N	R	-	V	0,1 x VTR	Unsigned 16-bit
4004	FA4	Voltage L3-N	R	-	V	0,1 x VTR	Unsigned 16-bit
4005	FA5	Voltage L1-N Avg.	R	-	V	0,1 x VTR	Unsigned 16-bit
4006	FA6	Voltage L2-N Avg.	R	-	V	0,1 x VTR	Unsigned 16-bit
4007	FA7	Voltage L3-N Avg.	R	-	V	0,1 x VTR	Unsigned 16-bit
4008	FA8	Voltage L1-N Min.	R	-	V	0,1 x VTR	Unsigned 16-bit
4009	FA9	Voltage L2-N Min.	R	-	V	0,1 x VTR	Unsigned 16-bit
4010	FAA	Voltage L3-N Min.	R	-	V	0,1 x VTR	Unsigned 16-bit
4011	FAB	Voltage L1-N Max.	R	-	V	0,1 x VTR	Unsigned 16-bit
4012	FAC	Voltage L2-N Max.	R	-	V	0,1 x VTR	Unsigned 16-bit
4013	FAD	Voltage L3-N Max.	R	-	V	0,1 x VTR	Unsigned 16-bit
4014	FAE	Voltage L1-L2	R	-	V	0,1 x VTR	Unsigned 16-bit
4015	FAF	Voltage L2-L3	R	-	V	0,1 x VTR	Unsigned 16-bit
4016	FB0	Voltage L3-L1	R	-	V	0,1 x VTR	Unsigned 16-bit
4017	FB1	Voltage L1-L2 Avg.	R	-	V	0,1 x VTR	Unsigned 16-bit
4018	FB2	Voltage L2-L3 Avg.	R	-	V	0,1 x VTR	Unsigned 16-bit
4019	FB3	Voltage L3-L1 Avg.	R	-	V	0,1 x VTR	Unsigned 16-bit
4020	FB4	Voltage L1-L2 Min.	R	-	V	0,1 x VTR	Unsigned 16-bit
4021	FB5	Voltage L2-L3 Min.	R	-	V	0,1 x VTR	Unsigned 16-bit
4022	FB6	Voltage L3-L1 Min.	R	-	V	0,1 x VTR	Unsigned 16-bit
4023	FB7	Voltage L1-L2 Max.	R	-	V	0,1 x VTR	Unsigned 16-bit
4024	FB8	Voltage L2-L3 Max.	R	-	V	0,1 x VTR	Unsigned 16-bit
4025	FB9	Voltage L3-L1 Max.	R	-	V	0,1 x VTR	Unsigned 16-bit
4026	FBA	Current L1	R	-	A	0,01 x CTR	Unsigned 16-bit
4027	FBB	Current L2	R	-	A	0,01 x CTR	Unsigned 16-bit
4028	FB0	Current L3	R	-	A	0,01 x CTR	Unsigned 16-bit
4029	FBD	Current L1 Avg.	R	-	A	0,01 x CTR	Unsigned 16-bit
4030	FBE	Current L2 Avg.	R	-	A	0,01 x CTR	Unsigned 16-bit
4031	FBF	Current L3 Avg.	R	-	A	0,01 x CTR	Unsigned 16-bit
4032	FC0	Current L1 Min.	R	-	A	0,01 x CTR	Unsigned 16-bit
4033	FC1	Current L2 Min.	R	-	A	0,01 x CTR	Unsigned 16-bit
4034	FC2	Current L3 Min.	R	-	A	0,01 x CTR	Unsigned 16-bit
4035	FC3	Current L1 Max.	R	-	A	0,01 x CTR	Unsigned 16-bit
4036	FC4	Current L2 Max.	R	-	A	0,01 x CTR	Unsigned 16-bit
4037	FC5	Current L3 Max.	R	-	A	0,01 x CTR	Unsigned 16-bit
4038	FC6	Current L1 Dmd.	R	-	A	0,01 x CTR	Unsigned 16-bit
4039	FC7	Current L2 Dmd.	R	-	A	0,01 x CTR	Unsigned 16-bit
4040	FC8	Current L3 Dmd.	R	-	A	0,01 x CTR	Unsigned 16-bit
4041	FC9	Reserved					
4042	FCA	Active Power L1	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4043	FCB	Active Power L2	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4044	FCC	Active Power L3	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4045	FCD	Active Power L1 Avg.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4046	FCE	Active Power L2 Avg.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4047	FCF	Active Power L3 Avg.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4048	FD0	Reserved					
4049	FD1	Reserved					
4050	FD2	Reserved					
4051	FD3	Active Power L1 Max.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4052	FD4	Active Power L2 Max.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4053	FD5	Active Power L3 Max.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4054	FD6	Active Power L1 Dmd.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4055	FD7	Active Power L2 Dmd.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4056	FD8	Active Power L3 Dmd.	R	-	Watt	1 x CTR x VTR	Unsigned 16-bit
4057	FD9	Reserved					
4058	FDA	Reserved					
4059	FDB	Reserved					
4060	FDC	Reserved					
4061	FDD	Reserved					
4062	FDE	Reserved					
4063	FD0	Reserved					
4064	FE0	Reserved					
4065	FE1	Reserved					
4066	FE2	Reserved					
4067	FE3	Reserved					
4068	FE4	Reserved					
4069	FE5	Reserved					
4070	FE6	Reserved					
4071	FE7	Reserved					

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ADDRESS (DEC)	ADDRESS (HEX)	REGISTER	R/W	RANGE	UNIT	MULTIPLIER	FORMAT
4072	FE8	Apparent Power L1	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4073	FE9	Apparent Power L2	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4074	FEA	Apparent Power L3	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4075	FEB	Apparent Power L1 Avg.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4076	FEC	Apparent Power L2 Avg.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4077	FED	Apparent Power L3 Avg.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4078	FEE	Reserved					
4079	FEF	Reserved					
4080	FF0	Reserved					
4081	FF1	Apparent Power L1 Max.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4082	FF2	Apparent Power L2 Max.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4083	FF3	Apparent Power L3 Max.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4084	FF4	Apparent Power L1 Dmd.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4085	FF5	Apparent Power L2 Dmd.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4086	FF6	Apparent Power L3 Dmd.	R	-	VA	1 x CTR x VTR	Unsigned 16-bit
4087	FF7	Reserved					
4088	FF8	Reserved					
4089	FF9	Reserved					
4090	FFA	Reserved					
4091	FFB	Reserved					
4092	FFC	Reserved					
4093	FFD	Reserved					
4094	FFE	Reserved					
4095	FFF	Reserved					
4096	1000	Reserved					
4097	1001	Reserved					
4098	1002	Reserved					
4099	1003	Reserved					
4100	1004	Reserved					
4101	1005	Reserved					
4102	1006	Reserved					
4103	1007	Reserved					
4104	1008	Reserved					
4105	1009	Frequency L1	R	-	Hz	0,1	Unsigned 16-bit
4106	100A	Frequency L2	R	-	Hz	0,1	Unsigned 16-bit
4107	100B	Frequency L3	R	-	Hz	0,1	Unsigned 16-bit
4108	100C	Frequency L1 Avg.	R	-	Hz	0,1	Unsigned 16-bit
4109	100D	Frequency L2 Avg.	R	-	Hz	0,1	Unsigned 16-bit
4110	100E	Frequency L3 Avg.	R	-	Hz	0,1	Unsigned 16-bit
4111	100F	Frequency L1 Min.	R	-	Hz	0,1	Unsigned 16-bit
4112	1010	Frequency L2 Min.	R	-	Hz	0,1	Unsigned 16-bit
4113	1011	Frequency L3 Min.	R	-	Hz	0,1	Unsigned 16-bit
4114	1012	Frequency L1 Max.	R	-	Hz	0,1	Unsigned 16-bit
4115	1013	Frequency L2 Max.	R	-	Hz	0,1	Unsigned 16-bit
4116	1014	Frequency L3 Max.	R	-	Hz	0,1	Unsigned 16-bit
4117	1015	Active Energy L1 High	R	-	Wh	1	float 32-bit
4118	1016	Active Energy L1 Low	R	-	Wh	1	float 32-bit
4119	1017	Active Energy L2 High	R	-	Wh	1	float 32-bit
4120	1018	Active Energy L2 Low	R	-	Wh	1	float 32-bit
4121	1019	Active Energy L3 High	R	-	Wh	1	float 32-bit
4122	101A	Active Energy L3 Low	R	-	Wh	1	float 32-bit
4123	101B	Reserved					
4124	101C	Reserved					
4125	101D	Reserved					
4126	101E	Reserved					
4127	101F	Reserved					
4128	1020	Reserved					
4129	1021	Reserved					
4130	1022	Reserved					
4131	1023	Reserved					
4132	1024	Reserved					
4133	1025	Reserved					
4134	1026	Reserved					
4135	1027	Reserved					
4136	1028	Reserved					
4137	1029	Reserved					
4138	102A	Reserved					
4139	102B	Reserved					
4140	102C	Reserved					
4141	102D	Reserved					
4142	102E	Reserved					
4143	102F	Reserved					