

MODBUS REGISTER MAP									
ADDRESS	ADDRESS (HEX)	REGISTER	R/W	RANGE	UNIT	MULTIPLIER	FORMAT	COMMENT	
0	0000	R_GER_M	R	(0-3000)xUT	Volt	0.1	unsigned int	L1 PHASE VOLTAGE	
2	0002	S_GER_M	R	(0-3000)xUT	Volt	0.1	unsigned int	L2 PHASE VOLTAGE	
4	0004	T_GER_M	R	(0-3000)xUT	Volt	0.1	unsigned int	L3 PHASE VOLTAGE	
6	0006	R_AKIM_M	R	(0-6000)xCT	Amper	0.001	unsigned int	L1 PHASE CURRENT	
8	0008	S_AKIM_M	R	(0-6000)xCT	Amper	0.001	unsigned int	L2 PHASE CURRENT	
10	000A	T_AKIM_M	R	(0-6000)xCT	Amper	0.001	unsigned int	L3 PHASE CURRENT	
12	000C	N_AKIM_M	R	(0-6000)xCT	Amper	0.001	unsigned int	NEUTRAL CURRENT	
14	000E	L1_GER_M	R	(0-5000)xUT	Volt	0.1	unsigned int	L1-L2 PHASE-PHASE VOLTAGE	
16	0010	L2_GER_M	R	(0-5000)xUT	Volt	0.1	unsigned int	L2-L3 PHASE-PHASE VOLTAGE	
18	0012	L3_GER_M	R	(0-5000)xUT	Volt	0.1	unsigned int	L3-L1 PHASE-PHASE VOLTAGE	
20	0014	RGAG_M	R	(-18000 - 18000)xCTxVT	Watt	0.1	int	L1 PHASE ACTIVE POWER	
22	0016	SGAG_M	R	(-18000 - 18000)xCTxVT	Watt	0.1	int	L2 PHASE ACTIVE POWER	
24	0018	TGAG_M	R	(-18000 - 18000)xCTxVT	Watt	0.1	int	L3 PHASE ACTIVE POWER	
26	001A	RGRG_M	R	(-18000 - 18000)xCTxVT	Var	0.1	int	L1 PHASE REACTIVE POWER	
28	001C	SGRG_M	R	(-18000 - 18000)xCTxVT	Var	0.1	int	L2 PHASE REACTIVE POWER	
30	001E	TGRG_M	R	(-18000 - 18000)xCTxVT	Var	0.1	int	L3 PHASE REACTIVE POWER	
32	0020	RGVA_M	R	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L1 PHASE APPARENT POWER	
34	0022	SGVA_M	R	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L2 PHASE APPARENT POWER	
36	0024	TGVA_M	R	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L3 PHASE APPARENT POWER	
38	0026	RGCOS_M	R	(-1000 - 1000)	-	0.001	int	L1 PHASE COS ϕ	
40	0028	SGCOS_M	R	(-1000 - 1000)	-	0.001	int	L2 PHASE COS ϕ	
42	002A	TGCOS_M	R	(-1000 - 1000)	-	0.001	int	L3 PHASE COS ϕ	
44	002C	AGGIM_M	R	(0 - 54000)xCTxVT	Watt	0.1	int	TOTAL IMPORT ACTIVE POWER	
46	002E	AGGEX_M	R	(0 - 54000)xCTxVT	Watt	0.1	int	TOTAL EXPORT ACTIVE POWER	
48	0030	RGGIM_M	R	(0 - 54000)xCTxVT	Var	0.1	int	TOTAL INDUCTIVE REACTIVE POWER	
50	0032	RGGEX_M	R	(0 - 54000)xCTxVT	Var	0.1	int	TOTAL CAPACITIVE REACTIVE POWER	
52	0034	VAG_M	R	(0 - 54000)xCTxVT	VA	0.1	unsigned int	TOTAL APPARENT POWER	
54	0036	COSIM_M	R	(-1000 - 1000)	-	0.001	int	AVERAGE INDUCTIVE COS ϕ	
56	0038	COSEX_M	R	(-1000 - 1000)	-	0.001	int	AVERAGE CAPACITIVE COS ϕ	
58	003A	FREQ_M	R	(4000 - 7000)	Hz	0.01	unsigned int	FREQUENCY	
60	003C	RGERILIM_ACI_M	R	0-360	Degree	1	unsigned int	L1 PHASE VOLTAGE ANGLE	
62	003E	SGERILIM_ACI_M	R	0-360	Degree	1	unsigned int	L2 PHASE VOLTAGE ANGLE	
64	0040	TGERILIM_ACI_M	R	0-360	Degree	1	unsigned int	L3 PHASE VOLTAGE ANGLE	
66	0042	RAKIM_ACI_M	R	0-360	Degree	1	unsigned int	L1 PHASE CURRENT ANGLE	
68	0044	SAKIM_ACI_M	R	0-360	Degree	1	unsigned int	L2 PHASE CURRENT ANGLE	
70	0046	TAKIM_ACI_M	R	0-360	Degree	1	unsigned int	L3 PHASE CURRENT ANGLE	
72	0048	RGGER_THD_M	R	0-999	%	0.1	unsigned int	L1 PHASE VOLTAGE THD	
74	004A	SGGER_THD_M	R	0-999	%	0.1	unsigned int	L2 PHASE VOLTAGE THD	
76	004C	TGGER_THD_M	R	0-999	%	0.1	unsigned int	L3 PHASE VOLTAGE THD	
78	004E	RGAK_THD_M	R	0-999	%	0.1	unsigned int	L1 PHASE CURRENT THD	
80	0050	SGAK_THD_M	R	0-999	%	0.1	unsigned int	L2 PHASE CURRENT THD	
82	0052	TGAK_THD_M	R	0-999	%	0.1	unsigned int	L3 PHASE CURRENT THD	
84	0054	DIO_M	R	-	-	-	-	DIGITAL INPUT STATUS	
86	0056	ACTIVE_IM_HM_1	R/W	0-FFFFFFFFFFFFFFFF	Wh	1	long int	IMPORT ACTIVE ENERGY-1	
88	0058	ACTIVE_IM_LM_1	R/W	0-FFFFFFFFFFFFFFFF	Wh	1	long int		
90	005A	ACTIVE_EX_HM_1	R/W	0-FFFFFFFFFFFFFFFF	Wh	1	long int	EXPORT ACTIVE ENERGY-1	
92	005C	ACTIVE_EX_LM_1	R/W	0-FFFFFFFFFFFFFFFF	Wh	1	long int		
94	005E	REACTIVE_IM_HM_1	R/W	0-FFFFFFFFFFFFFFFF	Varh	1	long int	INDUCTIVE REACTIVE ENERGY-1	
96	0060	REACTIVE_IM_LM_1	R/W	0-FFFFFFFFFFFFFFFF	Varh	1	long int		
98	0062	REACTIVE_EX_HM_1	R/W	0-FFFFFFFFFFFFFFFF	Varh	1	long int	CAPACITIVE REACTIVE ENERGY-1	
100	0064	REACTIVE_EX_LM_1	R/W	0-FFFFFFFFFFFFFFFF	Varh	1	long int		
102	0066	ACTIVE_IM_HM_2	R/W	0-FFFFFFFFFFFFFFFF	Wh	1	long int	IMPORT ACTIVE ENERGY-2	
104	0068	ACTIVE_IM_LM_2	R/W	0-FFFFFFFFFFFFFFFF	Wh	1	long int		
106	006A	ACTIVE_EX_HM_2	R/W	0-FFFFFFFFFFFFFFFF	Wh	1	long int	EXPORT ACTIVE ENERGY-2	
108	006C	ACTIVE_EX_LM_2	R/W	0-FFFFFFFFFFFFFFFF	Wh	1	long int		
110	006E	REACTIVE_IM_HM_2	R/W	0-FFFFFFFFFFFFFFFF	Varh	1	long int	INDUCTIVE REACTIVE ENERGY-2	
112	0070	REACTIVE_IM_LM_2	R/W	0-FFFFFFFFFFFFFFFF	Varh	1	long int		
114	0072	REACTIVE_EX_HM_2	R/W	0-FFFFFFFFFFFFFFFF	Varh	1	long int	CAPACITIVE REACTIVE ENERGY-2	
116	0074	REACTIVE_EX_LM_2	R/W	0-FFFFFFFFFFFFFFFF	Varh	1	long int		
118	0076	RMIN_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L1 PHASE MIN. VOLTAGE	
120	0078	SMIN_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L2 PHASE MIN. VOLTAGE	
122	007A	TMIN_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L3 PHASE MIN. VOLTAGE	
124	007C	L1MIN_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L1-L2 PHASE-PHASE MIN. VOLTAGE	
126	007E	L2MIN_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L2-L3 PHASE-PHASE MIN. VOLTAGE	
128	0080	L3MIN_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L3-L1 PHASE-PHASE MIN. VOLTAGE	
130	0082	RMIN_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L1 PHASE MIN. CURRENT	
132	0084	SMIN_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L2 PHASE MIN. CURRENT	
134	0086	TMIN_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L3 PHASE MIN. CURRENT	
136	0088	RGAG_MIN_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L1 PHASE MIN. ACTIVE POWER	
138	008A	SGAG_MIN_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L2 PHASE MIN. ACTIVE POWER	
140	008C	TGAG_MIN_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L3 PHASE MIN. ACTIVE POWER	
142	008E	RGRG_MIN_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L1 PHASE MIN. REACTIVE POWER	
144	0090	SGRG_MIN_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L2 PHASE MIN. REACTIVE POWER	
146	0092	TGRG_MIN_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L3 PHASE MIN. REACTIVE POWER	
148	0094	RGVA_MIN_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L1 PHASE MIN. APPARENT POWER	
150	0096	SGVA_MIN_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L2 PHASE MIN. APPARENT POWER	

*Available only for MPR-53S

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ADDRESS	ADDRESS (HEX)	REGISTER	R/W	RANGE	UNIT	MULTIPLIER	FORMAT	COMMENT
152	0098	TGVA_MIN_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L3 PHASE MIN. APPARENT POWER
154	009A	AGGIM_MIN_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	TOTAL MIN. IMPORT ACTIVE POWER
156	009C	AGGEX_MIN_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	TOTAL MIN. EXPORT ACTIVE POWER
158	009E	RGGIM_MIN_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	TOTAL MIN. IMPORT REACTIVE POWER
160	00A0	RGGEX_MIN_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	TOTAL MIN. EXPORT REACTIVE POWER
162	00A2	VAG_MIN_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	TOTAL MIN. APPARENT POWER
164	00A4	RMAX_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L1 PHASE MAX. VOLTAGE
166	00A6	SMAX_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L2 PHASE MAX. VOLTAGE
168	00A8	TMAX_GER_M	R/W	(0-3000)xUT	Volt	0.1	unsigned int	L3 PHASE MAX. VOLTAGE
170	00AA	L1MAX_GER_M	R/W	(0-5000)xUT	Volt	0.1	unsigned int	L1-L2 PHASE-PHASE MAX. VOLTAGE
172	00AC	L2MAX_GER_M	R/W	(0-5000)xUT	Volt	0.1	unsigned int	L2-L3 PHASE-PHASE MAX. VOLTAGE
174	00AE	L3MAX_GER_M	R/W	(0-5000)xUT	Volt	0.1	unsigned int	L3-L1 PHASE-PHASE MAX. VOLTAGE
176	00B0	RMAX_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L1 PHASE MAX. CURRENT
178	00B2	SMAX_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L2 PHASE MAX. CURRENT
180	00B4	TMAX_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L3 PHASE MAX. CURRENT
182	00B6	RGAG_MAX_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L1 PHASE MAX. ACTIVE POWER
184	00B8	SGAG_MAX_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L2 PHASE MAX. ACTIVE POWER
186	00BA	TGAG_MAX_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L3 PHASE MAX. ACTIVE POWER
188	00BC	RGRG_MAX_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L1 PHASE MAX. REACTIVE POWER
190	00BE	SGRG_MAX_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L2 PHASE MAX. REACTIVE POWER
192	00C0	TGRG_MAX_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L3 PHASE MAX. REACTIVE POWER
194	00C2	RGVA_MAX_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L1 PHASE MAX. APPARENT POWER
196	00C4	SGVA_MAX_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L2 PHASE MAX. APPARENT POWER
198	00C6	TGVA_MAX_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L3 PHASE MAX. APPARENT POWER
200	00C8	AGGIM_MAX_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	TOTAL MAX. IMPORT ACTIVE POWER
202	00CA	AGGEX_MAX_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	TOTAL MAX. EXPORT ACTIVE POWER
204	00CC	RGGIM_MAX_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	TOTAL MAX. IMPORT REACTIVE POWER
206	00CE	RGGEX_MAX_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	TOTAL MAX. EXPORT REACTIVE POWER
208	00D0	VAG_MAX_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	TOTAL MAX. APPARENT POWER
210	00D2	RDEM_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L1 PHASE MAX. CURRENT DEMAND
212	00D4	SDEM_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L2 PHASE MAX. CURRENT DEMAND
214	00D6	TDEM_AKIM_M	R/W	(0-6000)xCT	Amper	0.001	unsigned int	L3 PHASE MAX. CURRENT DEMAND
216	00D8	RGAG_IM_DEM_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L1 PHASE IMPORT MAX. DEMAND ACTIVE POWER
218	00DA	RGAG_EX_DEM_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L1 PHASE EXPORT MAX. DEMAND ACTIVE POWER
220	00DC	SGAG_IM_DEM_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L2 PHASE IMPORT MAX. DEMAND ACTIVE POWER
222	00DE	SGAG_EX_DEM_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L2 PHASE EXPORT MAX. DEMAND ACTIVE POWER
224	00E0	TGAG_IM_DEM_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L3 PHASE IMPORT MAX. DEMAND ACTIVE POWER
226	00E2	TGAG_EX_DEM_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	L3 PHASE EXPORT MAX. DEMAND ACTIVE POWER
228	00E4	RGRG_IM_DEM_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L1 PHASE IMPORT MAX. DEMAND REACTIVE POWER
230	00E6	RGRG_EX_DEM_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L1 PHASE EXPORT MAX. DEMAND REACTIVE POWER
232	00E8	SGRG_IM_DEM_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L2 PHASE IMPORT MAX. DEMAND REACTIVE POWER
234	00EA	SGRG_EX_DEM_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L2 PHASE EXPORT MAX. DEMAND REACTIVE POWER
236	00EC	TGRG_IM_DEM_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L3 PHASE IMPORT MAX. DEMAND REACTIVE POWER
238	00EE	TGRG_EX_DEM_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	L3 PHASE EXPORT MAX. DEMAND REACTIVE POWER
240	00F0	RGVA_DEM_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L1 PHASE MAX. DEMAND APPARENT POWER
242	00F2	SGVA_DEM_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L2 PHASE MAX. DEMAND APPARENT POWER
244	00F4	TGVA_DEM_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	L3 PHASE MAX. DEMAND APPARENT POWER
246	00F6	AGGIM_DEM_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	TOTAL IMPORT MAX. DEMAND ACTIVE POWER
248	00F8	AGGEX_DEM_M	R/W	(-18000 - 18000)xCTxVT	Watt	0.1	int	TOTAL EXPORT MAX. DEMAND ACTIVE POWER
250	00FA	RGGIM_DEM_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	TOTAL IMPORT MAX. DEMAND REACTIVE POWER
252	00FC	RGGEX_DEM_M	R/W	(-18000 - 18000)xCTxVT	Var	0.1	int	TOTAL EXPORT MAX. DEMAND REACTIVE POWER
254	00FE	VAG_DEM_M	R/W	(0 - 18000)xCTxVT	VA	0.1	unsigned int	TOTAL MAX. DEMAND APPARENT POWER