

EMR-1004 - MODBUS MEMORY MAP

Add (Hex)	MODBUS REG. ADD (Dec)	Size	Description	Unit	Min	Step 1	Level 1	Step 2	Level 2	Step 3	Max	Initial Value	Format	Associated Command	Read/ Write
0000	300001	1 W	Product Code	---	---	---	---	---	---	---	---	66	2		R
0001	300002	1 W	Product Model	---	---	---	---	---	---	---	---	4	2		R
0002	300003	1 W	Version Number	---	---	---	---	---	---	---	---	1.63	6		R
0003	300004	1 W	Product Language	---	---	---	---	---	---	---	---	1	2		R
0004	300005	124 W	Reserved												
0080	400129	1 W	Command Operation Code	---	---	---	---	---	---	---	---	---	6600		W
0081	400130	1 W	Command Password	---	---	---	---	---	---	---	---	---	2		W
0082	300131	14 W	Reserved												
0090	400145	2 W	Date & Time Preset Data	---	---	---	---	---	---	---	---	---	6408	5	R/W
0092	400147	10 W	Reserved												
009C	400157	1 W	Access Code Preset	---	1111	1	---	---	---	---	9999	---	10	14	R/W
009D	400158	21 W	Reserved												
00B2	400179	1 W	K TA Preset	---	800	1	---	---	---	---	1150	1000	2	27	R/W
00B3	400180	1 W	K TV Preset	---	800	1	---	---	---	---	1200	1000	2	26	R/W
00B4	400181	1 W	Phi TA/TV Preset	°	-500	1	---	---	---	---	500	0	1	28	R/W
00B5	300182	10 W	Reserved												
00BF	400192	8 W	BLE Device Name Preset	---	---	---	---	---	---	---	---	---	6410		R/W
00C7	400200	57 W	Reserved												
0100	400257	1 W	Display Contrast	---	1	1	---	---	---	---	10	5	2		R/W
0101	400258	1 W	Display Brightness	---	0	1	---	---	---	---	10	5	2		R/W
0102	400259	1 W	System Frequency	Hz	0	1	---	---	---	---	1	0	6401		R/W
0103	400260	1 W	Phase CT Rating Primary	---	0	1	---	---	---	---	9	4	6402		R/W
0104	400261	1 W	Phase Custom CT Ratio	---	5	1	10	5	500	50	6000	100	2		R/W
0105	400262	1 W	Number of Turns	---	1	1	---	---	---	---	5	1	2		R/W
0106	400263	1 W	Ground Sensing	---	0	1	---	---	---	---	1	1	6630		R/W
0107	400264	1 W	Ground CT Ratio	---	50	5	500	10	1000	50	5000	500	2		R/W
0108	400265	1 W	Vt Connection	---	0	1	---	---	---	---	3	1	6404		R/W
0109	400266	1 W	Vt Rated Secondary	V	80	1	---	---	---	---	480	100	2		R/W
010A	400267	2 W	Vt Rated Primary	V	80	5	500	50	1000	500	130000	10000	2		R/W
010C	300269	4 W	Reserved												
0110	400273	1 W	Aux1 Relay Mode	---	0	1	---	---	---	---	1	0	6614		R/W
0111	400274	1 W	Aux2 Relay Mode	---	0	1	---	---	---	---	1	0	6614		R/W
0112	400275	1 W	Aux3 Relay Mode	---	0	1	---	---	---	---	1	0	6614		R/W
0113	300276	12 W	Reserved												
011F	400288	1 W	Gnd Overcurrent Relays	---	0	1	---	---	---	---	7	0	6416		R/W
0120	400289	1 W	Gnd Overcurrent Level	%	2	1	---	---	---	---	400	10	2		R/W
0121	400290	1 W	Gnd Overcurrent Reset	%	1	1	---	---	---	---	398	8	2		R/W
0122	400291	1 W	Gnd Overcurrent Delay	s	0,5	0,1	10	1	---	---	600	0,5	4		R/W
0123	300292	10 W	Reserved												
012D	400302	1 W	Undervoltage1 Relays	---	0	1	---	---	---	---	7	0	6416		R/W
012E	400303	1 W	Undervoltage 1 Level	%	30	1	---	---	---	---	100	80	2		R/W
012F	400304	1 W	Undervoltage 1 Reset	%	31	1	---	---	---	---	100	85	2		R/W
0130	400305	1 W	Undervoltage 1 Delay	s	0,5	0,1	10	1	---	---	600	0,5	4		R/W
0131	400306	1 W	Phases for U/V 1 Operation	---	0	1	---	---	---	---	2	0	6413		R/W
0132	400307	1 W	Minimun Operation Level for U/V 1	%	0	1	---	---	---	---	50	15	2		R/W
0133	400308	1 W	Overvoltage1 Relays	---	0	1	---	---	---	---	7	0	6416		R/W
0134	400309	1 W	Overvoltage 1 Level	%	101	1	---	---	---	---	150	115	2		R/W
0135	400310	1 W	Overvoltage 1 Reset	%	100	1	---	---	---	---	150	110	2		R/W
0136	400311	1 W	Overvoltage 1 Delay	s	0,5	0,1	10	1	---	---	600	0,5	4		R/W
0137	400312	1 W	Phases for O/V 1 Operation	---	0	1	---	---	---	---	2	0,0	6413		R/W
0138	300313	30 W	Reserved												
0156	400343	1 W	Positive KW Relays	---	0	1	---	---	---	---	7	0	6416		R/W
0157	400344	2 W	Positive KW Level	KW	1	1	400	20	4000	200	200000	10	2		R/W
0159	400346	1 W	Positive KW Delay	s	0,5	0,1	10	1	---	---	600	0,5	4		R/W
015A	400347	1 W	Negative KW Relays	---	0	1	---	---	---	---	7	0	6416		R/W
015B	400348	2 W	Negative KW Level	KW	1	1	400	20	4000	200	200000	10	2		R/W
015D	400350	1 W	Negative KW Delay	s	0,5	0,1	10	1	---	---	600	0,5	4		R/W
015E	300351	10 W	Reserved												
0168	400361	1 W	Amps Demand Time Period	min	1	1	---	---	---	---	60	5	2		R/W
0169	400362	1 W	Phase A Amps Demand Relays	---	0	1	---	---	---	---	7	0	6416		R/W
016A	400363	1 W	Phase A Amps Demand Level	%	2	1	---	---	---	---	400	100	2		R/W
016B	400364	1 W	Phase B Amps Demand Relays	---	0	1	---	---	---	---	7	0	6416		R/W
016C	400365	1 W	Phase B Amps Demand Level	%	2	1	---	---	---	---	400	100	2		R/W
016D	400366	1 W	Phase C Amps Demand Relays	---	0	1	---	---	---	---	7	0	6416		R/W
016E	400367	1 W	Phase C Amps Demand Level	%	2	1	---	---	---	---	400	100	2		R/W
016F	300368	10 W	Reserved												
0179	400378	1 W	Power Demand Time Period	min	1	1	---	---	---	---	60	5	2		R/W
017A	400379	1 W	KW Demand Relays	---	0	1	---	---	---	---	7	0	6416		R/W
017B	400380	2 W	KW Demand Level	KW	1	1	400	20	4000	200	200000	10	2		R/W
017D	400382	1 W	KVAR Demand Relays	---	0	1	---	---	---	---	7	0	6416		R/W
017E	400383	2 W	KVAR Demand Level	KVAR	1	1	400	20	4000	200	200000	10	2		R/W
0180	400385	1 W	KVA Demand Relays	---	0	1	---	---	---	---	7	0	6416		R/W
0181	400386	2 W	KVA Demand Level	KVA	1	1	400	20	4000	200	200000	10	2		R/W
0183	300388	10 W	Reserved												
018D	400398	1 W	System Events Config	---	0	1	---	---	---	---	1	1	6407		R/W
018E	400399	1 W	Output Events Config	---	0	1	---	---	---	---	1	1	6407		R/W
018F	400400	1 W	Voltage Protec. Events Config	---	0	1	---	---	---	---	1	1	6407		R/W
0190	400401	1 W	Current Protec. Events Config	---	0	1	---	---	---	---	1	1	6407		R/W
0191	400402	1 W	Power Protec. Events Config	---	0	1	---	---	---	---	1	1	6407		R/W
0192	400403	1 W	Demand Protec. Events Config	---	0	1	---	---	---	---	1	0	6407		R/W
0193	300404	10 W	Reserved												
019D	400414	1 W	Slave Address	---	1	1	---	---	---	---	247	1	2		R/W
019E	400415	1 W	Com (RS-485) Baud Rate	---	3	1	---	---	---	---	7	3	6409		R/W
019F	400416	1 W	Com (RS-485) Configuration	---	2	1	---	---	---	---	7	2	6414		R/W
01A0	300417	8 W	BLE Device Name	---	---	---	---	---	---	---	---	---	6410		R

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Add (Hex)	MODBUS REG. ADD (Dec)	Size	Description	Unit	Min	Step 1	Level 1	Step 2	Level 2	Step 3	Max	Initial Value	Format	Associated Command	Read/ Write
01A8	300425	63 W	Reserved												
01E7	300488	1 W	K TA	---	800	1	---	---	---	---	1150	1000	2		R
01E8	300489	1 W	K TV	---	800	1	---	---	---	---	1200	1000	2		R
01E9	300490	1 W	Phi TA/TV	°	-500	1	---	---	---	---	500	0	1		R
01EA	300491	278 W	Reserved												
0300	300769	2 W	EMR-1004 Date & Time	---	---	---	---	---	---	---	---	---	6408		R
0302	300771	1 W	Reserved												
0303	300772	1 W	Output Relays Status	---	---	---	---	---	---	---	---	---	6411		R
0304	300773	2 W	Pickup Flag	---	---	---	---	---	---	---	---	---	6622		R
0306	300775	2 W	Status Flag	---	---	---	---	---	---	---	---	---	6622		R
0308	300777	1 W	Led Status	---	---	---	---	---	---	---	---	---	6618		R
0309	300778	1 W	Button Status	---	---	---	---	---	---	---	---	---	6619		R
030A	300779	4 W	Reserved												
030E	300783	2 W	Phase A RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0310	300785	2 W	Phase B RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0312	300787	2 W	Phase C RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0314	300789	2 W	Neutral RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0316	300791	2 W	Ground RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0318	300793	2 W	Current Average	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
031A	300795	1 W	Current Unbalance	%	---	---	---	---	---	---	---	---	4		R
031B	300796	4 W	Reserved												
031F	300800	2 W	AB RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
0321	300802	2 W	BC RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
0323	300804	2 W	CA RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
0325	300806	2 W	Phase AN RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
0327	300808	2 W	Phase BN RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
0329	300810	2 W	Phase CN RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
032B	300812	1 W	Phase Sequence	---	---	---	---	---	---	---	---	---	32		R
032C	300813	2 W	Voltage Average	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
032E	300815	1 W	Voltage Unbalance	%	---	---	---	---	---	---	---	---	4		R
032F	300816	6 W	Reserved												
0335	300822	1 W	Current THD	%	0,0	0,1	100	1	---	---	100	---	4		R
0336	300823	1 W	Voltage THD	%	0,0	0,1	100	1	---	---	100	---	4		R
0337	300824	10 W	Reserved												R
0341	300834	1 W	Phase A Current 2nd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0342	300835	1 W	Phase A Current 3rd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0343	300836	1 W	Phase A Current 4th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0344	300837	1 W	Phase A Current 5th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0345	300838	1 W	Phase A Current 6th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0346	300839	1 W	Phase A Current 7th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0347	300840	1 W	Phase A Current 8th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0348	300841	1 W	Phase A Current 9th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0349	300842	1 W	Phase A Current 10th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
034A	300843	1 W	Phase A Current 11th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
034B	300844	1 W	Phase B Current 2nd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
034C	300845	1 W	Phase B Current 3rd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
034D	300846	1 W	Phase B Current 4th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
034E	300847	1 W	Phase B Current 5th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
034F	300848	1 W	Phase B Current 6th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0350	300849	1 W	Phase B Current 7th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0351	300850	1 W	Phase B Current 8th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0352	300851	1 W	Phase B Current 9th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0353	300852	1 W	Phase B Current 10th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0354	300853	1 W	Phase B Current 11th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0355	300854	1 W	Phase C Current 2nd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0356	300855	1 W	Phase C Current 3rd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0357	300856	1 W	Phase C Current 4th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0358	300857	1 W	Phase C Current 5th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0359	300858	1 W	Phase C Current 6th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
035A	300859	1 W	Phase C Current 7th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
035B	300860	1 W	Phase C Current 8th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
035C	300861	1 W	Phase C Current 9th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
035D	300862	1 W	Phase C Current 10th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
035E	300863	1 W	Phase C Current 11th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
035F	300864	1 W	Phase A K-Factor	---	0,00	0,01	10	0,1	100	1	1000	---	6		R
0360	300865	1 W	Phase B K-Factor	---	0,00	0,01	10	0,1	100	1	1000	---	6		R
0361	300866	1 W	Phase C K-Factor	---	0,00	0,01	10	0,1	100	1	1000	---	6		R
0362	300867	1 W	AB/AN Voltage 2nd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0363	300868	1 W	AB/AN Voltage 3rd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0364	300869	1 W	AB/AN Voltage 4th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0365	300870	1 W	AB/AN Voltage 5th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0366	300871	1 W	AB/AN Voltage 6th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0367	300872	1 W	AB/AN Voltage 7th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0368	300873	1 W	AB/AN Voltage 8th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0369	300874	1 W	AB/AN Voltage 9th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
036A	300875	1 W	AB/AN Voltage 10th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
036B	300876	1 W	AB/AN Voltage 11th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
036C	300877	1 W	BC/BN Voltage 2nd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
036D	300878	1 W	BC/BN Voltage 3rd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
036E	300879	1 W	BC/BN Voltage 4th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
036F	300880	1 W	BC/BN Voltage 5th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0370	300881	1 W	BC/BN Voltage 6th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0371	300882	1 W	BC/BN Voltage 7th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0372	300883	1 W	BC/BN Voltage 8th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0373	300884	1 W	BC/BN Voltage 9th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R

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0374	300885	1 W	BC/BN Voltage 10th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0375	300886	1 W	BC/BN Voltage 11th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0376	300887	1 W	CA/CN Voltage 2nd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0377	300888	1 W	CA/CN Voltage 3rd Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0378	300889	1 W	CA/CN Voltage 4th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0379	300890	1 W	CA/CN Voltage 5th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
037A	300891	1 W	CA/CN Voltage 6th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
037B	300892	1 W	CA/CN Voltage 7th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
037C	300893	1 W	CA/CN Voltage 8th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
037D	300894	1 W	CA/CN Voltage 9th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
037E	300895	1 W	CA/CN Voltage 10th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
037F	300896	1 W	CA/CN Voltage 11th Harmonic	%	0,0	0,1	100	1	---	---	100	---	4		R
0380	300897	2 W	Phase A Real Power	W	0,00	0,01	10	0,1	100	1	1000	---	7		R
0382	300899	2 W	Phase A Reactive Power	VAR	0,00	0,01	10	0,1	100	1	1000	---	7		R
0384	300901	2 W	Phase A Aparent Power	VA	0,00	0,01	10	0,1	100	1	1000	---	7		R
0386	300903	2 W	Phase B Real Power	W	0,00	0,01	10	0,1	100	1	1000	---	7		R
0388	300905	2 W	Phase B Reactive Power	VAR	0,00	0,01	10	0,1	100	1	1000	---	7		R
038A	300907	2 W	Phase B Aparent Power	VA	0,00	0,01	10	0,1	100	1	1000	---	7		R
038C	300909	2 W	Phase C Real Power	W	0,00	0,01	10	0,1	100	1	1000	---	7		R
038E	300911	2 W	Phase C Reactive Power	VAR	0,00	0,01	10	0,1	100	1	1000	---	7		R
0390	300913	2 W	Phase C Aparent Power	VA	0,00	0,01	10	0,1	100	1	1000	---	7		R
0392	300915	2 W	3Ø Real Power	W	0,00	0,01	10	0,1	100	1	1000	---	7		R
0394	300917	2 W	3Ø Reactive Power	VAR	0,00	0,01	10	0,1	100	1	1000	---	7		R
0396	300919	2 W	3Ø Aparent Power	VA	0,00	0,01	10	0,1	100	1	1000	---	7		R
0398	300921	1 W	3Ø Power Factor	---	---	---	---	---	---	---	---	---	5		R
0399	300922	2 W	3Ø Active Positive Energy	Wh	0,00	0,01	100	0,1	---	---	1000	---	7		R
039B	300924	2 W	3Ø Active Negative Energy	Wh	0,00	0,01	100	0,1	---	---	1000	---	7		R
039D	300926	2 W	3Ø Reactive Positive Energy	VARh	0,00	0,01	100	0,1	---	---	1000	---	7		R
039F	300928	2 W	3Ø Reactive Negative Energy	VARh	0,00	0,01	100	0,1	---	---	1000	---	7		R
03A1	300930	2 W	Date & Time Last Energy Clear	---	---	---	---	---	---	---	---	---	6408		R
03A3	300932	10 W	Reserved												
03AD	300942	1 W	Frequency	Hz	---	---	---	---	---	---	---	---	6		R
03AE	300943	10 W	Reserved												
03B8	300953	2 W	Phase A Demand	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
03BA	300955	2 W	Phase A Max Demand	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
03BC	300957	2 W	Date & Time Phase A Max Demand	---	---	---	---	---	---	---	---	---	6408		R
03BE	300959	2 W	Phase B Demand	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
03C0	300961	2 W	Phase B Max Demand	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
03C2	300963	2 W	Date & Time Phase B Max Demand	---	---	---	---	---	---	---	---	---	6408		R
03C4	300965	2 W	Phase C Demand	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
03C6	300967	2 W	Phase C Max Demand	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
03C8	300969	2 W	Date & Time Phase C Max Demand	---	---	---	---	---	---	---	---	---	6408		R
03CA	300971	2 W	Active Power Demand	W	0,00	0,01	10	0,1	100	1	1000	---	7		R
03CC	300973	2 W	Active Power Max Demand	W	0,00	0,01	10	0,1	100	1	1000	---	7		R
03CE	300975	2 W	Date & Time Active Power Max Demand	---	---	---	---	---	---	---	---	---	6408		R
03D0	300977	2 W	Reactive Power Demand	VAR	0,00	0,01	10	0,1	100	1	1000	---	7		R
03D2	300979	2 W	Reactive Power Max Demand	VAR	0,00	0,01	10	0,1	100	1	1000	---	7		R
03D4	300981	2 W	Date & Time Reactive Power Max Demand	---	---	---	---	---	---	---	---	---	6408		R
03D6	300983	2 W	Apparent Power Demand	VA	0,00	0,01	10	0,1	100	1	1000	---	7		R
03D8	300985	2 W	Apparent Power Max Demand	VA	0,00	0,01	10	0,1	100	1	1000	---	7		R
03DA	300987	2 W	Date & Time Apparent Power Max Demand	---	---	---	---	---	---	---	---	---	6408		R
03DC	300989	548 W	Reserved												
0600	301537	1 W	Last Event Number	---	---	---	---	---	---	---	---	---	2		R
0601	301538	2 W	Last Event Date and Time	---	---	---	---	---	---	---	---	---	6408		R
0603	401540	1 W	Selected Event Number	---	---	---	---	---	---	---	---	---	2		R/W
0604	301541	1 W	Selected Event Type	---	---	---	---	---	---	---	---	---	6615		R
0605	301542	2 W	Selected Event Date and Time	---	---	---	---	---	---	---	---	---	6408		R
0607	301544	1 W	Selected Event Decimal Second	---	---	---	---	---	---	---	---	---	2		R
0608	301545	2 W	Selected Event Phase A RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
060A	301547	2 W	Selected Event Phase B RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
060C	301549	2 W	Selected Event Phase C RMS Voltage	V	0,00	0,01	10	0,1	100	1	1000	---	6		R
060E	301551	2 W	Selected Event Phase A RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0610	301553	2 W	Selected Event Phase B RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0612	301555	2 W	Selected Event Phase C RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0614	301557	2 W	Selected Event Ground RMS Current	A	0,00	0,01	10	0,1	100	1	1000	---	6		R
0616	301559	2 W	Selected Event 3Ø Real Power	W	0,00	0,01	10	0,1	100	1	1000	---	7		R
0618	301561	1 W	Selected Event 3Ø Power Factor	---	---	---	---	---	---	---	---	---	5		R
0619	301562	1 W	Selected Event Frequency	Hz	---	---	---	---	---	---	---	---	6		R

EMR DATA FORMATS

Format Code	Type	Value	Definition
F1	Integer		Signed Integer Value Example: -123 saved as -123
F2	Integer		Unsigned Integer Value Example: 123 saved as 123
F4	Integer		Unsigned Integer Value with 1 decimals Example: 1.0 saved as 10
F5	Integer		Signed Integer Value with 2 decimals Example: -1.00 saved as -100
F6	Integer		Unsigned Integer Value with 2 decimals Example: 1.00 saved as 100
F7	Floating Point		(4 Byte) Floating Point Value
F10	Integer		Unsigned Integer Access Code Value Register Format Example: 1111 saved as 1111 (only digits 1~9 accepted, digit 0 is NOT ALLOWED)
F32	Integer		Phase Sequence
		0	None
		1	A-B-C
		2	A-C-B
F6401	Integer		System Frequency
		0	50 Hz
		1	60 Hz
F6402	Integer		CT Rating
		0	1.6/0.2
		1	3.2/0.2
		2	6.4/0.2
		3	25/0.2
		4	100/0.2
		5	200/0.2
		6	300/0.2
		7	400/0.2
		8	600/0.2
		9	CUSTOM
F6404	Integer		VT Connection
		0	Direct 3w
		1	Direct 4w
		2	Wye
		3	Delta
F6407	Integer		Events Enable/Disable
		0	Disable
		1	Enable
F6408	Integer		Unix Timestamp This count starts at the Unix Epoch on January 1st, 1970 at UTC
F6409	String		BaudRate Value
		3	9600 Bps
		4	19200 Bps
		5	38400 Bps
		6	57600 Bps
		7	115200 Bps
F6410	String		String
		BLE Name	Allowed characters: &()-./0123456789:ABCDEFGHIJKLMNQRSTUUVWXYZ[_abcdefghijklmnopqrstuvwxyz
F6411	16 Bits BitMap		Output Relays Status Register
		Bit 0	Aux1 Output Relay { 0 = "De-energized" , 1 = "Energized" }
		Bit 1	Aux2 Output Relay { 0 = "De-energized" , 1 = "Energized" }

EMR DATA FORMATS

Format Code	Type	Value	Definition
		Bit 2	Aux3 Output Relay { 0 = "De-energized" , 1 = "Energized" }
		Bit 3 ~ Bit 15	Not Used
F6413	Integer		Phases Operation
		0	Any One
		1	Any Two
		2	All Three
F6414	Integer		RS Port Configuration
		2	8N1 (8 bits Data, Parity NONE, 1 bit Stop)
		3	8N2 (8 bits Data, Parity NONE, 2 bit Stop)
		4	8E1 (8 bits Data, Parity EVEN, 1 bit Stop)
		5	8E2 (8 bits Data, Parity EVEN, 2 bit Stop)
		6	8O1 (8 bits Data, Parity ODD, 1 bit Stop)
		7	8O2 (8 bits Data, Parity ODD, 1 bit Stop)
F6416	Integer		Output Relays
		0	---
		1	1--
		2	-2-
		3	12-
		4	--3
		5	1-3
		6	-23
		7	123
F6614	Integer		Output Relays Mode
		0	LATCHED
		1	AUTORESET
F6618	16 Bits BitMap		Led Status
		Bit 0	Status
		Bit 1	Memory
		Bit 2	Trip
F6619	16 Bits BitMap		Button Status
		Bit 0	Down
		Bit 1	Up
		Bit 2	Function
		Bit 3	Enter
		Bit 4	Esc
F6622	32 Bits BitMap		Pickup/Status Flags
		Bit 0	UnderVoltage1
		Bit 1	OverVoltage1
		Bit 2	GND_OC
		Bit 3	PositiveKW
		Bit 4	NegativeKW
		Bit 5	IaDemand
		Bit 6	IbDemand
		Bit 7	IcDemand
		Bit 8	ActPowDemand
		Bit 9	ReactPowDemand
		Bit 10	AppPowDemand
		Bit 11	SPDiscrepancy
		Bit 12	FlashError
		Bit 13	ADCError
		Bit 14	BLEError
		Bit 15	RAMError
		Bit 16	MemTrip
		Bit 17 ~ Bit 15	Not Used
F6630	Integer		Enable/Disable Format
		0	Disable
		1	Enable

**EMR COMMANDS
(F6600)**

Command	Label	Password	Preset data
0	No command	no	
1	Clear Energy	Adv	
2	Reset	user	
5	Set Date and Time	user	x
6	Operate Aux1	user	
7	Operate Aux2	user	
8	Operate Aux3	user	
9	Clear Events	user	
10	Clear Max Current Demand	user	
11	New Current Demand Period	user	
12	Clear Max Power Demand	user	
13	New Power Demand Period	user	
14	Set Access Code	user	x
26	Set Gain TV	Adv	x
27	Set Gain TA	Adv	x
28	Set Compensation Angle TA TV	Adv	x
29	Factory Default	Adv	

**EMR EVENTS
(F6615)**

Category	Event	Code
-	No Event	0
-	Events Clear	1
Voltage Protec. Events	Undervoltage 1	2
Current Protec. Events	Gnd Overcurrent	3
Voltage Protec. Events	Overvoltage 1	4
Output Events	Aux1 Reset	5
Output Events	Aux2 Reset	6
Output Events	Aux3 Reset	7
System Events	Setpoint Stored	8
System Events	Power Loss	9
System Events	Aux Power	10
System Events	ADC Fault	11
System Events	Flash Fault	12
System Events	BLE Error	13
System Events	Energy Lost	14
System Events	Current Demand Lost	15
System Events	Power Demand Lost	16
System Events	BLE Test	17
System Events	Setpoint Discrepancy	18
System Events	Default Setpoint Loaded	19
Power Protect.	Posivite Power KW	20
Power Protect.	Negative Power KW	21
System Events	Energy Clear	22
System Events	Current Demand Clear	23
System Events	Power Demand Clear	24
System Events	Current Demand New Period	25
System Events	Power Demand New Period	26
Demand Protect. Events	Phase A Demand	27
Demand Protect. Events	Phase B Demand	28
Demand Protect. Events	Phase C Demand	29
Demand Protect. Events	Active Power Demand	30
Demand Protect. Events	Reactive Power Demand	31
Demand Protect. Events	Apparent Power Demand	32
System Events	Password Changed	33
Output Events	Aux1 Relay	34
Output Events	Aux2 Relay	35
Output Events	Aux3 Relay	36
System Events	Model Changed	37
System Events	Calibration Data Lost	38
System Events	Output Status Lost	39
System Events	Energy Restored	40