

0144	Ulong	4	Varh	Quadrant 3 Reactive Energy L2	1					✓	✓	✓	✓
0148	Ulong	4	Varh	Quadrant 3 Reactive Energy L3	1					✓	✓	✓	✓
014C	Ulong	4	Varh	Quadrant 3 Reactive Energy L4	1					✓	✓	✓	✓
0150	Ulong	4	Varh	Quadrant 3 total reactive Energy	1	✓	✓	✓	✓	✓	✓	✓	✓
0154	Ulong	4	Varh	Quadrant 4 Reactive Energy L1	1					✓	✓	✓	✓
0158	Ulong	4	Varh	Quadrant 4 Reactive Energy L2	1					✓	✓	✓	✓
015C	Ulong	4	Varh	Quadrant 4 Reactive Energy L3	1					✓	✓	✓	✓
0160	Ulong	4	Varh	Quadrant 4 Reactive Energy L4	1					✓	✓	✓	✓
0164	Ulong	4	Varh	Quadrant 4 total reactive Energy	1	✓	✓	✓	✓	✓	✓	✓	✓
0168	uint	2	-	Number Of pulse Meter (Max 8)	1					✓	✓	✓	✓
016A	uint	2	-	Total pulse meter input 1	1					0	0	0	0
016C	uint	2	-	Total pulse meter input 2	1					0	0	0	0
016E	uint	2	-	Total pulse meter input 3	1					0	0	0	0
0170	uint	2	-	Total pulse meter input 4	1					0	0	0	0
0172	uint	2	-	Total pulse meter input 5	1					0	0	0	0
0174	uint	2	-	Total pulse meter input 6	1					0	0	0	0
0176	uint	2	-	Total pulse meter input 7	1					0	0	0	0
0178	uint	2	-	Total pulse meter input 8	1					0	0	0	0

Energy			
Supported Functions	Start Address	Register Counts	
Write single register	1500	160	

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
05DC	Ulong	4	Wh	Consumed Active Energy L1	1							
05E0	Ulong	4	Wh	Consumed Active Energy L2	1							
05E4	Ulong	4	Wh	Consumed Active Energy L3	1							
05E8	Ulong	4	Wh	Consumed Active Energy L4	1							
05EC	Ulong	4	Wh	Total Consumed Energy L1..L3	1							
05F0	Ulong	4	Wh	Delivered Active Energy L1	1							
05F4	Ulong	4	Wh	Delivered Active Energy L2	1							
05F8	Ulong	4	Wh	Delivered Active Energy L3	1							
05FC	Ulong	4	Wh	Delivered Active Energy L4	1							
0600	Ulong	4	Wh	Total Delivered Energy L1..L3	1							
0604	Ulong	4	VAh	Consumed Apperant energy L1	1							
0608	Ulong	4	VAh	Consumed Apperant energy L2	1							
060C	Ulong	4	VAh	Consumed Apperant energy L3	1							
0610	Ulong	4	VAh	Consumed Apperant energy L4	1							
0614	Ulong	4	VAh	Total Consumed Apperant Energy L1..L3	1							
0618	Ulong	4	VAh	Delivered Apperant Energy L1	1							
061C	Ulong	4	VAh	Delivered Apperant Energy L2	1							
0620	Ulong	4	VAh	Delivered Apperant Energy L3	1							
0624	Ulong	4	VAh	Delivered Apperant Energy L4	1							
0628	Ulong	4	VAh	Total Delivered Apperant energy L1..L3	1							
062C	Ulong	4	Varh	Quadrant 1 Reactive Energy L1	1							
0630	Ulong	4	Varh	Quadrant 1 Reactive Energy L2	1							
0634	Ulong	4	Varh	Quadrant 1 Reactive Energy L3	1							
0638	Ulong	4	Varh	Quadrant 1 Reactive Energy L4	1							
063C	Ulong	4	Varh	Quadrant 1 total reactive Energy	1							
0640	Ulong	4	Varh	Quadrant 2 Reactive Energy L1	1							
0644	Ulong	4	Varh	Quadrant 2 Reactive Energy L2	1							
0648	Ulong	4	Varh	Quadrant 2 Reactive Energy L3	1							
064C	Ulong	4	Varh	Quadrant 2 Reactive Energy L4	1							
0650	Ulong	4	Varh	Quadrant 2 total reactive Energy	1							
0654	Ulong	4	Varh	Quadrant 3 Reactive Energy L1	1							
0658	Ulong	4	Varh	Quadrant 3 Reactive Energy L2	1							
065C	Ulong	4	Varh	Quadrant 3 Reactive Energy L3	1							
0660	Ulong	4	Varh	Quadrant 3 Reactive Energy L4	1							
0664	Ulong	4	Varh	Quadrant 3 total reactive Energy	1							
0668	Ulong	4	Varh	Quadrant 4 Reactive Energy L1	1							
066C	Ulong	4	Varh	Quadrant 4 Reactive Energy L2	1							
0670	Ulong	4	Varh	Quadrant 4 Reactive Energy L3	1							
0674	Ulong	4	Varh	Quadrant 4 Reactive Energy L4	1							
0678	Ulong	4	Varh	Quadrant 4 total reactive Energy	1							

Energy per tariff			
Supported Functions	Start Address	Register Counts	
Read holding registers	500	42	

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
01F4	ushort	1	-	Number Of Tarrriff	1							
01F5	ushort	1	-	Tarrriff Number In Progress	1				✓	✓	✓	✓
01F6	ulong	4	kWh	Positive Active Energies Tarrriff1	1				✓	✓	✓	✓
01FA	ulong	4	kWh	Positive Active Energies Tarrriff2	1				✓	✓	✓	✓
01FE	ulong	4	kWh	Positive Active Energies Tarrriff3	1				✓	✓	✓	✓
0202	ulong	4	kWh	Positive Active Energies Tarrriff4	1				✓	✓	✓	✓
0206	ulong	4	kWh	Positive Active Energies Tarrriff5	1				✓	✓	✓	✓
020A	ulong	4	kWh	Positive Active Energies Tarrriff6	1				✓	✓	✓	✓
020E	ulong	4	kWh	Positive Active Energies Tarrriff7	1				✓	✓	✓	✓
0212	ulong	4	kWh	Positive Active Energies Tarrriff8	1				✓	✓	✓	✓
0216	ulong	4	kWh	Generator Energies	1	✓		✓	✓	✓	✓	✓
021A	ulong	4	kWh	Total tarrriff energies	1	✓		✓	✓	✓	✓	✓

Min-Max, Max Demand, Demand Measurement			
Supported Functions	Start Address	Register Counts	
Read holding registers	800	568	

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
0320	uint	2	V/10	L1 Phase Max Voltage	0.1	✓	✓	✓	✓	✓	✓	✓
0322	uint	2	Time	L1 Phase Max Voltage Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0324	uint	2	V/10	L2 Phase Max Voltage	0.1	✓	✓	✓	✓	✓	✓	✓
0326	uint	2	Time	L2 Phase Max Voltage Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0328	uint	2	V/10	L3 Phase Max Voltage	0.1	✓	✓	✓	✓	✓	✓	✓
032A	uint	2	Time	L3 Phase Max Voltage Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
032C	uint	2	V/10	L4 Phase Max Voltage	0.1	✓	✓	✓	✓	✓	✓	✓
032E	uint	2	Time	L4 Phase Max Voltage Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0330	uint	2	V/10	L1-L2 Max Voltage	0.1	✓	✓	✓	✓	✓	✓	✓
0332	uint	2	Time	L1-L2 Max Voltage Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0334	uint	2	V/10	L2-L3 Max Voltage	0.1	✓	✓	✓	✓	✓	✓	✓
0336	uint	2	Time	L2-L3 Max Voltage Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0338	uint	2	V/10	L3-L1 Max Voltage	0.1	✓	✓	✓	✓	✓	✓	✓
033A	uint	2	Time	L3-L1 Max Voltage Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
033C	uint	2	A/10	L1 Phase Max Current	0.001	✓	✓	✓	✓	✓	✓	✓
033E	uint	2	Time	L1 Phase Max Current Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0340	uint	2	A/10	L2 Phase Max Current	0.001	✓	✓	✓	✓	✓	✓	✓
0342	uint	2	Time	L2 Phase Max Current Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0344	uint	2	A/10	L3 Phase Max Current	0.001	✓	✓	✓	✓	✓	✓	✓
0346	uint	2	Time	L3 Phase Max Current Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0348	uint	2	A/10	L4 Phase Max Current	0.001	✓	✓	✓	✓	✓	✓	✓
034A	uint	2	Time	L4 Phase Max Current Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
034C	uint	2	A/10	IN Max Current	0.001	✓	✓	✓	✓	✓	✓	✓
034E	uint	2	Time	IN Max Current Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0350	float	2	W/10	L1 Phase Max Active Power	1	✓	✓	✓	✓	✓	✓	✓
0352	uint	2	Time	L1 Phase Max Active Power Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0354	float	2	W/10	L2 Phase Max Active Power	1	✓	✓	✓	✓	✓	✓	✓
0356	uint	2	Time	L2 Phase Max Active Power Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0358	float	2	W/10	L3 Phase Max Active Power	1	✓	✓	✓	✓	✓	✓	✓
035A	uint	2	Time	L3 Phase Max Active Power Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
035C	float	2	W/10	L4 Phase Max Active Power	1	✓	✓	✓	✓	✓	✓	✓
035E	uint	2	Time	L4 Phase Max Active Power Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0360	float	2	W/10	Max Total Import Active Power	1	✓	✓	✓	✓	✓	✓	✓
0362	uint	2	Time	Max Total Import Active Power Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓
0364	float	2	W/10	Max Total Export Active Power	1	✓	✓	✓	✓	✓	✓	✓
0366	uint	2	Time	Max Total Export Active Power Time	Unix Time Stamp	✓	✓	✓	✓	✓	✓	✓

Read holding registers	2000	24
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Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
07D0	uint	2	%	Total Harmonic Distorsion VLL12	0.1	✓		✓		✓	✓	✓
07D2	uint	2	%	Total Harmonic Distorsion VLL23	0.1	✓		✓		✓	✓	✓
07D4	uint	2	%	Total Harmonic Distorsion VLL31	0.1	✓		✓		✓	✓	✓
07D6	uint	2	%	Total Harmonic Distorsion VLL1	0.1	✓		✓		✓	✓	✓
07D8	uint	2	%	Total Harmonic Distorsion VL2	0.1	✓		✓		✓	✓	✓
07DA	uint	2	%	Total Harmonic Distorsion VL3	0.1	✓		✓		✓	✓	✓
07DC	uint	2	%	Total Harmonic Distorsion VL4	0.1							
07DE	uint	2	%	Total Harmonic Distorsion IL1	0.1	✓		✓		✓	✓	✓
07E0	uint	2	%	Total Harmonic Distorsion IL2	0.1	✓		✓		✓	✓	✓
07E2	uint	2	%	Total Harmonic Distorsion IL3	0.1	✓		✓		✓	✓	✓
07E4	uint	2	%	Total Harmonic Distorsion IL4	0.1							
07E6	uint	2	%	Total Harmonic Distorsion IN	0.1	✓		✓		✓	✓	✓

THD I Harmonic Order		
Supported Functions	Start Address	Register Counts
Read holding registers	3000	251

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
0B88	ushort	1	%	Number Of Harmonics	0.1						✓	✓
0B89	ushort	1	%	H_IL1_2	0.1						✓	✓
0B8A	ushort	1	%	H_IL2_3	0.1						✓	✓
0B8B	ushort	1	%	H_IL3_2	0.1						✓	✓
0B8C	ushort	1	%	H_IL4_2	0.1							
0B8D	ushort	1	%	H_ILN_2	0.1						✓	✓
0B8E	ushort	1	%	H_IL1_3	0.1						✓	✓
0B8F	ushort	1	%	H_IL2_3	0.1						✓	✓
0B90	ushort	1	%	H_IL3_3	0.1						✓	✓
0B91	ushort	1	%	H_IL4_3	0.1							
0B92	ushort	1	%	H_ILN_3	0.1						✓	✓
.....						✓	✓
.....						✓	✓
.....						✓	✓
0CA9	ushort	1	%	H_IL1_50	0.1						✓	✓
0CAA	ushort	1	%	H_IL2_50	0.1						✓	✓
0CAB	ushort	1	%	H_IL3_50	0.1						✓	✓
0CAC	ushort	1	%	H_IL4_50	0.1							
0CAD	ushort	1	%	H_ILN_50	0.1						✓	✓
0CAE	ushort	1	%	H_IL1_51	0.1						✓	✓
0CAF	ushort	1	%	H_IL2_51	0.1						✓	✓
0CB0	ushort	1	%	H_IL3_51	0.1						✓	✓
0CB1	ushort	1	%	H_IL4_51	0.1							
0CB2	ushort	1	%	H_ILN_51	0.1						✓	✓

THD V Harmonic Order		
Supported Functions	Start Address	Register Counts
Read holding registers	4000	201

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
0FA0	ushort	1	%	Number Of Harmonics	0.1						✓	✓
0FA1	ushort	1	%	H_V1_2	0.1						✓	✓
0FA2	ushort	1	%	H_V2_3	0.1						✓	✓
0FA3	ushort	1	%	H_V3_2	0.1						✓	✓
0FA4	ushort	1	%	H_V4_2	0.1							
0FA5	ushort	1	%	H_V1_3	0.1						✓	✓
0FA6	ushort	1	%	H_V2_3	0.1						✓	✓
0FA7	ushort	1	%	H_V3_3	0.1						✓	✓
0FA8	ushort	1	%	H_V4_3	0.1							
.....						✓	✓
.....						✓	✓
.....						✓	✓
1061	ushort	1	%	H_V1_50	0.1						✓	✓
1062	ushort	1	%	H_V2_50	0.1						✓	✓
1063	ushort	1	%	H_V3_50	0.1						✓	✓
1064	ushort	1	%	H_V4_50	0.1							
1065	ushort	1	%	H_V1_51	0.1						✓	✓
1066	ushort	1	%	H_V2_51	0.1						✓	✓
1067	ushort	1	%	H_V3_51	0.1						✓	✓
1068	ushort	1	%	H_V4_51	0.1							

THD VLL Harmonic Order		
Supported Functions	Start Address	Register Counts
Read holding registers	5000	151

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
1388	ushort	1	%	NUM_OF_HARMONICS	0.1						✓	✓
1389	ushort	1	%	H_VLL1_2_2	0.1						✓	✓
138A	ushort	1	%	H_VLL2_3_2	0.1						✓	✓
138B	ushort	1	%	H_VLL3_1_2	0.1						✓	✓
138C	ushort	1	%	H_VLL1_2_3	0.1						✓	✓
138D	ushort	1	%	H_VLL2_3_3	0.1						✓	✓
138E	ushort	1	%	H_VLL3_1_3	0.1						✓	✓
138F	ushort	1	%	H_VLL1_2_4	0.1						✓	✓
1390	ushort	1	%	H_VLL2_3_4	0.1						✓	✓
1391	ushort	1	%	H_VLL3_1_4	0.1						✓	✓
.....						✓	✓
.....						✓	✓
.....						✓	✓
1419	ushort	1	%	H_VLL1_2_50	0.1						✓	✓
141A	ushort	1	%	H_VLL2_3_50	0.1						✓	✓
141B	ushort	1	%	H_VLL3_1_50	0.1						✓	✓
141C	ushort	1	%	H_VLL1_2_51	0.1						✓	✓
141D	ushort	1	%	H_VLL2_3_51	0.1						✓	✓
141E	ushort	1	%	H_VLL3_1_51	0.1						✓	✓

NETWORK SETTINGS		
Supported Functions	Start Address	Register Counts
Read holding registers	16384	18
Write single register		
Write multiple registers		

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
4000	ushort	1	-	Network Type: 0: 3P4W 1: 3P3W 2: ARON 3: 3P4W Balanced 4: 3P3W Balanced	1	✓	✓	✓	✓	✓	✓	✓
4001	ushort	1	A	Current Transformer Secondary: 0: 1A 1: 5A	1	✓	✓	✓	✓	✓	✓	✓
4002	ushort	1	A	Current Transformer Primary: E= 9959	1	✓	✓	✓	✓	✓	✓	✓
	ushort	1	-	Voltage Transformer Present: 0=None 1=Present	1	✓	✓	✓	✓	✓	✓	✓
4004	ushort	1	V	Voltage Transformer Secondary: 50 -- 300	1	✓	✓	✓	✓	✓	✓	✓

4005	uint	2	V	Voltage Transformer Primary: 50 -- 999999	1	✓	✓	✓	✓	✓	✓	✓	✓
4007	ushort	1	Minutes	P Demand Time: 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 15: 15 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1								
4008	ushort	1	Minutes	I Demand Time: 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 15: 15 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1	✓	✓	✓	✓	✓	✓	✓	✓
4009	ushort	1	Minutes	V Average Time 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 15: 15 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1								
400A	ushort	1	Hz	System Frequency: 0: 50 Hz 1: 60 Hz	1	✓	✓	✓	✓	✓	✓	✓	✓
400B	uint	2	V	System Voltage: VT_Primary --- 25V* primary/secondary	1	✓	✓	✓	✓	✓	✓	✓	✓
400D	ushort	1	A	System Current: CT_Primary --- 1A	1	✓	✓	✓	✓	✓	✓	✓	✓
400E	ushort	1	%	Sag Level: 70% -- 98%	0.1				✓	✓	✓	✓	✓
400F	ushort	1	%	Sag Hysteresis: 0.5% -- 5%	0.1				✓	✓	✓	✓	✓
4010	ushort	1	%	Swell Level: 102% -- 130%	0.1				✓	✓	✓	✓	✓
4011	ushort	1	%	Swell Hysteresis: 0.5% -- 5%	0.1				✓	✓	✓	✓	✓

SETUP		
Supported Functions	Start Address	Register Counts
Read holding registers	17000	141
Write single register		
Write multiple registers		

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
4268	ushort	1	-	Network Type: 0: 3P4W 1: 3P3W 2: ARON 3: 3P4W Balanced 4: 3P3W Balanced	1	✓	✓	✓	✓	✓	✓	✓
4269	ushort	1	A	Current Transformer Secondary: 0: 1A 1: 5A	1	✓	✓	✓	✓	✓	✓	✓
426A	ushort	1	A	Current Transformer Primary: 5 -- 9999	1	✓	✓	✓	✓	✓	✓	✓
426B	ushort	1	-	Voltage Transformer Present: 0: None 1: Present	1	✓	✓	✓	✓	✓	✓	✓
426C	ushort	1	V	Voltage Transformer Secondary: 50 -- 300	1	✓	✓	✓	✓	✓	✓	✓
426D	uint	2	V	Voltage Seconder Primary: 50 -- 999999	1	✓	✓	✓	✓	✓	✓	✓
426F	ushort	1	Minutes	P Demand Time: 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 15: 15 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1							
4270	ushort	1	Minutes	I Demand Time: 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 15: 15 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1	✓	✓	✓	✓	✓	✓	✓
4271	ushort	1	Minutes	V Average Time 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 15: 15 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1							
4272	ushort	1	Hz	System Frequency: 0: 50 Hz 1: 60 Hz	1	✓	✓	✓	✓	✓	✓	✓
4273	uint	2	V	System Voltage: VT_Primary --- 25V* primary/secondary	1	✓	✓	✓	✓	✓	✓	✓
4275	ushort	1	A	System Current: CT_Primary --- 1A	1	✓	✓	✓	✓	✓	✓	✓
4276	ushort	1	%	Sag Level: 70% -- 98%	0.1				✓	✓	✓	✓
4277	ushort	1	%	Sag Hysteresis: 0.5% -- 5%	0.1				✓	✓	✓	✓
4278	ushort	1	%	Swell Level: 102% -- 130%	0.1				✓	✓	✓	✓
4279	ushort	1	%	Swell Hysteresis: 0.5% -- 5%	0.1				✓	✓	✓	✓
427A	ushort	1	-	OUT1 Type: 0: REMOTE 1: PULSE 2: ALARM	1	✓			0	0	0	0
427B	ushort	1	-	OUT2 Type: 0: REMOTE 1: PULSE 2: ALARM	1				0	0	0	0
427C	ushort	1	-	OUT3 Type: 0: REMOTE 1: PULSE 2: ALARM	1				0	0	0	0
427D	ushort	1	-	OUT4 Type: 0: REMOTE 1: PULSE 2: ALARM	1				0	0	0	0
427E	ushort	1	-	INPUT1 Type: 0: digital 1: N/A 2: Generator	1	✓		✓	0	0	0	0
427F	ushort	1	-	INPUT2 Type: 0: digital 1: PULSE 2: Generator	1		✓		0	0	0	0

4280	ushort	1	-	INPUT3 Type: 0: digital 1: PULSE 2: Generator	1				0	0	0	0
4281	ushort	1	-	INPUT4 Type: 0: digital 1: PULSE 2: Generator	1				0	0	0	0
4282	ushort	1	-	Analog Output 1 Type: 0: 0 - 20 mA 1: 4 - 20 mA 2: 0 - 10 V 3: 2 - 10 V	1				0	0	0	0
4283	ushort	1	-	Analog Output 1 Parameter: 0: VLN1, 1: VLN2, 2: VLN3, 3: VLN4 4: VLL1, 5: VLL2, 6: VLL3, 7: IL1, 8: IL2, 9: IL3, 10: IL4, 11: ILN 12: IL1 Demand, 13: IL2 Demand, 14: IL3 Demand 15: IL4 Demand, 16: ILN Demand, 17: P1, 18: P2, 19: P3, 20: Q1, 21: Q2, 22: Q3, 23: S1, 24: S2, 25: S3, 26: SUMP, 27: SUMP IMP, 28: SUMP EXP, 29: SUMP Q, 30: SUM QUAD1, 31: SUM QUAD2, 32: SUM QUAD3, 33: SUM QUAD4, 34: SUM S, 35: SUM S IMP, 36: SUM S EXP, 37: SUM P IMP Deman, 38: SUM P EXP Demand, 39: SUM S IMP Demand, 40: SUM S EXP Demand, 41: Cos Phi 1, 42: Cos Phi 2, 43: Cos Phi 3, 44: SUM Cos Phi, 45: Hz	1				0	0	0	0
4284	uint	2	Depends on parameter	Analog Output1 High	Depends on parameter				0	0	0	0
4286	uint	2	Depends on parameter	Analog Output1 Low	Depends on parameter				0	0	0	0
4288	ushort	1	-	Analog Output 2 Type:	1				0	0	0	0
4289	ushort	1	-	Analog Output 2 Parameter:	1				0	0	0	0
428A	uint	2	Depends on parameter	Analog Output2 High	Depends on parameter				0	0	0	0
428C	uint	2	Depends on parameter	Analog Output2 Low	Depends on parameter				0	0	0	0
428E	ushort	1	-	Analog Output 3 Type:	1				0	0	0	0
428F	ushort	1	-	Analog Output 3 Parameter:	1				0	0	0	0
4290	uint	2	Depends on parameter	Analog Output3 High	Depends on parameter				0	0	0	0
4292	uint	2	Depends on parameter	Analog Output3 Low	Depends on parameter				0	0	0	0
4294	ushort	1	-	Analog Output 4 Type:	1				0	0	0	0
4295	ushort	1	-	Analog Output 4 Parameter:	1				0	0	0	0
4296	uint	2	Depends on parameter	Analog Output4 High	Depends on parameter				0	0	0	0
4298	uint	2	Depends on parameter	Analog Output4 Low	Depends on parameter				0	0	0	0
429A	ushort	1	-	Pulse Input 1: 0: Pasive 1: Active	1				0	0	0	0
429B	ushort	1	-	Pulse Input 1 Ratio: 1 -- 20000	1				0	0	0	0
429C	ushort	1	-	Pulse Input 2: 0: Pasive 1: Active	1				0	0	0	0
429D	ushort	1	-	Pulse Input 2 Ratio: 1 -- 20000	1				0	0	0	0
429E	ushort	1	-	Pulse Input 3: 0: Pasive 1: Active	1				0	0	0	0
429F	ushort	1	-	Pulse Input 3 Ratio: 1 -- 20000	1				0	0	0	0
42A0	ushort	1	-	Pulse Input 4: 0: Pasive 1: Active	1				0	0	0	0
42A1	ushort	1	-	Pulse Input 4 Ratio: 1 -- 20000	1				0	0	0	0
42A2	ushort	1	ms	Pulse Width: 0: 20 ms 1: 40 ms 2: 60 ms 3: 80 ms 4: 100 ms 5: 150 ms 6: 200 ms 7: 300 ms 8: 400 ms 9: 500 ms	1				0	0	0	0
42A3	ushort	1	-	Pulse Output1 Parameter: 0: Disable 1: Total Import Active Energy (Q14) 2: Total Export Active Energy (Q23) 3: Total Import reactive energy (Q1) 4: Total Export Reactive Energy (Q4) 5: Total Import Reactive Energy (Q2) 6: Total Export Reactive Energy (Q3) 7: Total Import Apperant Energy(Q14) 8: Total Export Apperant Energy(Q23) 9: Total Import Active Energy (L1) 10: Total Import Active Energy (L2) 11: Total Import Active Energy (L3)	1	✓	✓	0	0	0	0	0
42A4	ushort	1	Wh	Pulse Output 1 Ratio: 0: 1 1: 10 2: 100 3: 1000 4: 10000 5: 100000 6: 1000000	1	✓	✓	0	0	0	0	0
42A5	ushort	1	ms	Pulse Output 1 Pulse Width: between 20 - 1000 ms	1	✓	✓	0	0	0	0	0
42A6	ushort	1	ms	Pulse Output 1 Pulse Duty: between 20 - 1000 ms	1	✓	✓	0	0	0	0	0
42A7	ushort	1	-	Pulse Output 2 Parameter:	1				0	0	0	0
42A8	ushort	1	-	Pulse Output 2 Ratio:	1				0	0	0	0
42A9	ushort	1	ms	Pulse Output 2 Pulse Width:	1				0	0	0	0
42AA	ushort	1	ms	Pulse Output 2 Pulse Duty:	1				0	0	0	0
42AB	ushort	1	-	Pulse Output3 Parameter:	1				0	0	0	0
42AC	ushort	1	-	Pulse Output 3 Ratio:	1				0	0	0	0
42AD	ushort	1	ms	Pulse Output 3 Pulse Width:	1				0	0	0	0

42AE	ushort	1	ms	Pulse Output 3 Pulse Duty:	1				0	0	0	0
42AF	ushort	1	-	Pulse Output4 Parameter:	1				0	0	0	0
42B0	ushort	1	-	Pulse Output 4 Ratio:	1				0	0	0	0
42B1	ushort	1	ms	Pulse Output 4 Pulse Width:	1				0	0	0	0
42B2	ushort	1	ms	Pulse Output 4 Pulse Duty:	1				0	0	0	0
42B3	ushort	1	-	Alarm1 Status: 0: Pasive 1: Active	1	✓	✓	✓	✓	✓	✓	✓
42B4	ushort	1	-	Alarm1 Parameter: 0: VLN 1: VLL 2: IL 3: INC 4: I Demand 5:in Demand 6: P 7: Q 8: S 9: SUM P 10: SUM Q 11: SUM S 12: P Demand 13: S Demand 14: SUM P Demand 15: SUM S Demand 16: COS Phi 17: Sum COS Phi 18: frequency 19: VLN4 20: IL4 21: THD V 22: THD U 23: THD I 24:Working Hour 25: Input 1 26: Input 2 27: Input 3	1	19,20,26,27 ,28: N/A	19,20,26,27 ,28: N/A	19,20,26,27 ,28: N/A	✓	✓	✓	✓
42B5	ushort	1	-	0: Greater 1: Less 2: In window 3: Out window	1	✓	✓	✓	✓	✓	✓	✓
42B6	ushort	1	s	Alarm 1 On Time: 0--9999	0.1	✓	✓	✓	✓	✓	✓	✓
42B7	ushort	1	s	Alarm 1 Off Time: 0--9999	0.1	✓	✓	✓	✓	✓	✓	✓
42B8	ushort	1	-	0: Output 1 1: Output 2 2: Output 3 3: Output 4	1	1,2,3:N/A	1,2,3:N/A	1,2,3:N/A	✓	✓	✓	✓
42B9	int	2	Depends on parameter	Alarm 1 High Threshold Value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
42B8	int	2	Depends on parameter	Alarm 1 Low Threshold Value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
42B0	ushort	1	%	Alarm 1 Hysteresis	0.1	✓	✓	✓	✓	✓	✓	✓
42BE	ushort	1	-	Alarm2 Status:	1	✓	✓	✓	✓	✓	✓	✓
42BF	ushort	1	-	Alarm2 Parameter:	1	✓	✓	✓	✓	✓	✓	✓
42C0	ushort	1	-	.....	1	✓	✓	✓	✓	✓	✓	✓
42C1	ushort	1	s	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42C2	ushort	1	s	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42C3	ushort	1	-	.....	1	✓	✓	✓	✓	✓	✓	✓
42C4	int	2	Depends on parameter	.....	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
42C6	int	2	Depends on parameter	.....	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
42C8	ushort	1	%	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42C9	ushort	1	-	Alarm3 Status:	1	✓	✓	✓	✓	✓	✓	✓
42CA	ushort	1	-	Alarm3 Parameter:	1	✓	✓	✓	✓	✓	✓	✓
42CB	ushort	1	-	.....	1	✓	✓	✓	✓	✓	✓	✓
42CC	ushort	1	s	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42CD	ushort	1	s	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42CE	ushort	1	-	.....	1	✓	✓	✓	✓	✓	✓	✓
42CF	int	2	Depends on parameter	.....	Depends on parameter	✓	✓	✓	0	0	0	0
42D1	int	2	Depends on parameter	.....	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
42D3	ushort	1	%	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42D4	ushort	1	-	Alarm4 Status:	1	✓	✓	✓	✓	✓	✓	✓
42D5	ushort	1	-	Alarm4 Parameter:	1	✓	✓	✓	✓	✓	✓	✓
42D6	ushort	1	-	.....	1	✓	✓	✓	✓	✓	✓	✓
42D7	ushort	1	s	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42D8	ushort	1	s	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42D9	ushort	1	-	.....	1	✓	✓	✓	✓	✓	✓	✓
42DA	int	2	Depends on parameter	.....	Depends on parameter	✓	✓	✓	0	0	0	0
42DC	int	2	Depends on parameter	.....	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
42DE	ushort	1	%	.....	0.1	✓	✓	✓	✓	✓	✓	✓
42DF	ushort	1	-	Reserved	1							
42E0	ushort	1	-	WORKING HOUR COUNTER PARAMETER: 0: VLN 1: VLL 2: IL 3: In 4: I Demand 5:in Demand 6: P 7: Q 8: S 9: SUM P 10: SUM Q 11: SUM S 12: P Demand 13: S Demand 14: SUM P Demand 15: SUM S Demand 16: COS Phi 17: Sum COS Phi 18: frequency 19: VLN4 20: IL4 21: THD V 22: THD U 23: THD I 24: N/A 25: Input 1	1	19,20,26,27 ,28: N/A	✓	✓	✓	✓	✓	✓
42E1	uint	2	ends on param	WORKING HOUR COUNTER PARAMETER LEVEL	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
42E3	ushort	1	-	Modbus Protocol: 0: MODBUS 1: ENTBUS	1							
42E4	ushort	1	-	Modbus Slave Address: 1 -- 247	1	✓	✓	✓	✓	✓	✓	✓

42E5	ushort	1	bps	Modbus Baud Rate: 0: 2400 1: 4800 2: 9600 3: 19200 4: 38400 5: 57600 6: 115200	1	✓	✓	✓	✓	✓	✓	✓
42E6	ushort	1	bit	Modbus Parity: 0: None 1: Odd 2: Even	1	✓	✓	✓	✓	✓	✓	✓
42E7	ushort	1	-	Password Activate: 0: Passive 1: Active	1	✓	✓	✓	✓	✓	✓	✓
42E8	ushort	1	-	Password	1	✓	✓	✓	✓	✓	✓	✓
42E9	ushort	1	-	LCD Contrast Setting: 0-15	1	✓	✓	✓	✓	✓	✓	✓
42EA	ushort	1	-	LCD Backlight Setting: 0: closed 1: open 2: automatic	1	✓	✓	✓	✓	✓	✓	✓
42EB	ushort	1	-	Language Setting: 0: english 1: turkish 2: german 3: french	1	✓	✓	✓	✓	✓	✓	✓
42EC	ushort	1	-		1	✓	✓	✓	✓	✓	✓	✓
42ED	ushort	1	month	DST Start Month: 1-12	1	✓	✓	✓	✓	✓	✓	✓
42EE	ushort	1	?	DST Start Week: 0: First 1: Second 2: Third 3: Fourth 4: Last	1	✓	✓	✓	✓	✓	✓	✓
42EF	ushort	1	DAY	DST Start Day: 0: SUNDAY 1: MONDAY 2: TUESDAY 3: WEDNESDAY 4: THURSDAY 5: FRIDAY 6: SATURDAY	1	✓	✓	✓	✓	✓	✓	✓
42F0	ushort	1	hour	DST Start Hour: 0-23	1	✓	✓	✓	✓	✓	✓	✓
42F1	ushort	1	month	DST End Month: 1-12	1	✓	✓	✓	✓	✓	✓	✓
42F2	ushort	1	?	DST END Week: 0: First 1: Second 2: Third 3: Fourth 4: Last	1	✓	✓	✓	✓	✓	✓	✓
42F3	ushort	1	DAY	DST END DAY: 0: SUNDAY 1: MONDAY 2: TUESDAY 3: WEDNESDAY 4: THURSDAY 5: FRIDAY 6: SATURDAY	1	✓	✓	✓	✓	✓	✓	✓
42F4	ushort	1	hour	DST End Hour: 0-23	1	✓	✓	✓	✓	✓	✓	✓
42F5	ushort	1	-	Tariff Activate: 0: Disable 1: Enable	1					✓	✓	✓

DATE/HOUR		
Supported Functions	Start Address	Register Counts
Read holding registers	6000	18
Write single register		
Write multiple registers		

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
1770	ushort	1	DAY	DAY 1-31	1	✓	✓	✓	✓	✓	✓	✓
1771	ushort	1	month	MONTH 1-12	1	✓	✓	✓	✓	✓	✓	✓
1772	ushort	1	Yr	YEAR 2000-2199	1	✓	✓	✓	✓	✓	✓	✓
1773	ushort	1	hour	HOUR 0-23	1	✓	✓	✓	✓	✓	✓	✓
1774	ushort	1	MINUTE	MINUTES 0-59	1	✓	✓	✓	✓	✓	✓	✓
1775	ushort	1	Second	SECONDS 0-59	1	✓	✓	✓	✓	✓	✓	✓
1776	ushort	1	DAY	0: SUNDAY 1: MONDAY 2: TUESDAY 3: WEDNESDAY 4: THURSDAY 5: FRIDAY 6: SATURDAY	1	✓	✓	✓	✓	✓	✓	✓
1777	short	1	-	±24 → ±24		✓	✓	✓	✓	✓	✓	✓
1778	ushort	1	-	0: DISABLE 1: EUROPE 2: AMERICA 3: MANUAL	1	✓	✓	✓	✓	✓	✓	✓
1779	ushort	1	month	DST Start Month: 1-12	1	✓	✓	✓	✓	✓	✓	✓
177A	ushort	1	week	DST Start Week: 0: First 1: Second 2: Third 3: Fourth 4: Last	1	✓	✓	✓	✓	✓	✓	✓
177B	ushort	1	DAY	DST Start DAY: 0: SUNDAY 1: MONDAY 2: TUESDAY 3: WEDNESDAY 4: THURSDAY 5: FRIDAY 6: SATURDAY	1	✓	✓	✓	✓	✓	✓	✓
177C	ushort	1	hour	DST Start Hour: 0-23	1	✓	✓	✓	✓	✓	✓	✓
177D	ushort	1	month	DST End Month: 1-12	1	✓	✓	✓	✓	✓	✓	✓
177E	ushort	1	week	DST END Week: 0: First 1: Second 2: Third 3: Fourth 4: Last	1	✓	✓	✓	✓	✓	✓	✓

177F	ushort	1	DAY	DST END DAY: 0: SUNDAY 1: MONDAY 2: TUESDAY 3: WEDNESDAY 4: THURSDAY 5: FRIDAY 6: SATURDAY	1	✓	✓	✓	✓	✓	✓
1780	ushort	1	hour	DST End Hour: 0-23	1	✓	✓	✓	✓	✓	✓
1781	ushort	1	-	DST_STATUS	1	✓	✓	✓	✓	✓	✓

TARIFF SETTINGS OF SATURDAY		
Supported Functions	Start Address	Register Counts
Read holding registers	22000	16
Write single register		
Write multiple registers		

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-1	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
55F0	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
55F1	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
55F2	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
55F3	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
55F4	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
55F5	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
55F6	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
55F7	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
55F8	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
55F9	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
55FA	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
55FB	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
55FC	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
55FD	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
55FE	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
55FF	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓

TARIFF SETTINGS OF SUNDAY		
Supported Functions	Start Address	Register Counts
Read holding registers	9000	16
Write single register		
Write multiple registers		

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-1	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
2328	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2329	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
232A	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
232B	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
232C	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
232D	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
232E	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
232F	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
2330	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2331	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
2332	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2333	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
2334	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2335	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓
2336	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2337	ushort	1	-	Tariff Number Settings: 0-8	1					✓	✓	✓

TARIFF SETTINGS OF WEEKDAY		
Supported Functions	Start Address	Register Counts
Read holding registers	9000	16
Write single register		
Write multiple registers		

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
2710	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute Tariff Number Settings :	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2711	ushort	1	-	0-8	1					✓	✓	✓
2712	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute Tariff Number Settings :	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2713	ushort	1	-	0-8	1					✓	✓	✓
2714	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute Tariff Number Settings :	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2715	ushort	1	-	0-8	1					✓	✓	✓
2716	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute Tariff Number Settings :	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2717	ushort	1	-	0-8	1					✓	✓	✓
2718	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute Tariff Number Settings :	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
2719	ushort	1	-	0-8	1					✓	✓	✓
271A	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute Tariff Number Settings :	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
271B	ushort	1	-	0-8	1					✓	✓	✓
271C	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute Tariff Number Settings :	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
271D	ushort	1	-	0-8	1					✓	✓	✓
271E	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute Tariff Number Settings :	Hour Value: Register Value / 256 Minute Value: Register Value % 256					✓	✓	✓
271F	ushort	1	-	0-8	1					✓	✓	✓

ALARM STATUS		
Supported Functions	Start Address	Register Counts
Read holding registers	20000	36

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT			
4E20	ushort	1	-	Alarm Output Number : 0 - 3	1	✓	✓	✓	✓	✓	✓	✓			
4E21	ushort	1	-	Alarm1 on lower threshold cause: 0x0000: Alarm Yok 0x0011: VLN1, 0x0012: VLN2, 0x0013: VLN1 + VLN2 0x0014: VLN3, 0x0015: VLN1 + VLN3, 0x0016: VLN2 + VLN3 0x0017: VLN1 + VLN2 + VLN3, 0x0018: VLN4 0x0021: VLL1, 0x0022: VLL2, 0x0023: VLL1 + VLL2, 0x0024: VLL3 0x0025: VLL1 + VLL3, 0x0026: VLL2 + VLL3, 0x0027: VLL1 + VLL2 + VLL3 0x0031: IL1, 0x0032: IL2, 0x0033: IL1 + IL2, 0x0034: IL3, 0x0035: IL1 + IL3 0x0036: IL2 + IL3, 0x0037: IL1 + IL2 + IL3 0x0038: IL4 0x0040: IN 0x0051: P1, 0x0052: P2, 0x0053: P1 + P2, 0x0054: P3, 0x0055: P1 + P3 0x0056: P2 + P3, 0x0057: P1 + P2 + P3, 0x0058: P4 0x0060: PSUM IMP 0x0070: PSUM EXP, 0x0080: PSUM 0x0091: Q1, 0x0092: Q2, 0x0093: Q1 + Q2, 0x0094: Q3, 0x0095: Q1 + Q3 0x0096: Q2 + Q3, 0x0097: Q1 + Q2 + Q3, 0x0098: Q4 0x00A0: QSUM IMP, 0x00B0: QSUM EXP, 0x00C0: QSUM 0x00D1: S1, 0x00D2: S2, 0x00D3: S1 + S2, 0x00D4: S3, 0x00D5: S1 + S3 0x00D6: S2 + S3, 0x00D7: S1 + S2 + S3, 0x00D8: S4 0x00E0: SSUM IMP, 0x00F0: SSUM EXP, 0x1000: SSUM, 0x0111: IL1 Demand, 0x0112: IL2 Demand, 0x0113: IL1 + IL2 Demand, 0x0114: IL3 Demand, 0x0115: IL1 + IL3 Demand, 0x0116: IL2 + IL3 Demand, 0x0117: IL1 + IL2 + IL3 Demand, 0x0118: IL4 Demand, 0x0120: IN Demand, 0x0131: P1 Demand, 0x0132: P2 Demand, 0x0133: P1 + P2 Demand, 0x0134: P3 Demand, 0x0135: P1 + P3, 0x0136: P2 + P3 Demand, 0x0137: P1 + P2 + P3 Demand, 0x0138: P4 Demand 0x0140: PSUM Demands Imp.	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4E22	int	2	Depends on parameter.	Alarm 1 on lower threshold min value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓			
4E24	ushort	1	-	Alarm1 on upper threshold cause: 0x0000: Alarm Yok 0x0011: VLN1, 0x0012: VLN2, 0x0013: VLN1 + VLN2 0x0014: VLN3, 0x0015: VLN1 + VLN3, 0x0016: VLN2 + VLN3 0x0017: VLN1 + VLN2 + VLN3, 0x0018: VLN4 0x0021: VLL1, 0x0022: VLL2, 0x0023: VLL1 + VLL2, 0x0024: VLL3 0x0025: VLL1 + VLL3, 0x0026: VLL2 + VLL3, 0x0027: VLL1 + VLL2 + VLL3 0x0031: IL1, 0x0032: IL2, 0x0033: IL1 + IL2, 0x0034: IL3, 0x0035: IL1 + IL3 0x0036: IL2 + IL3, 0x0037: IL1 + IL2 + IL3 0x0038: IL4 0x0040: IN 0x0051: P1, 0x0052: P2, 0x0053: P1 + P2, 0x0054: P3, 0x0055: P1 + P3 0x0056: P2 + P3, 0x0057: P1 + P2 + P3, 0x0058: P4 0x0060: PSUM IMP 0x0070: PSUM EXP, 0x0080: PSUM 0x0091: Q1, 0x0092: Q2, 0x0093: Q1 + Q2, 0x0094: Q3, 0x0095: Q1 + Q3 0x0096: Q2 + Q3, 0x0097: Q1 + Q2 + Q3, 0x0098: Q4 0x00A0: QSUM IMP, 0x00B0: QSUM EXP, 0x00C0: QSUM 0x00D1: S1, 0x00D2: S2, 0x00D3: S1 + S2, 0x00D4: S3, 0x00D5: S1 + S3 0x00D6: S2 + S3, 0x00D7: S1 + S2 + S3, 0x00D8: S4 0x00E0: SSUM IMP, 0x00F0: SSUM EXP, 0x1000: SSUM, 0x0111: IL1 Demand, 0x0112: IL2 Demand, 0x0113: IL1 + IL2 Demand, 0x0114: IL3 Demand, 0x0115: IL1 + IL3 Demand, 0x0116: IL2 + IL3 Demand, 0x0117: IL1 + IL2 + IL3 Demand, 0x0118: IL4 Demand, 0x0120: IN Demand, 0x0131: P1 Demand, 0x0132: P2 Demand, 0x0133: P1 + P2 Demand, 0x0134: P3 Demand, 0x0135: P1 + P3, 0x0136: P2 + P3 Demand, 0x0137: P1 + P2 + P3 Demand, 0x0138: P4 Demand 0x0140: PSUM Demands Imp.	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4E25	int	2	Depends on parameter	Alarm 1 on upper threshold max. value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓			
4E27	uint	2	s	Alarm 1 Duration	1	✓	✓	✓	✓	✓	✓	✓			
.....	✓	✓	✓	✓	✓	✓	✓			
.....	✓	✓	✓	✓	✓	✓	✓			
.....	✓	✓	✓	✓	✓	✓	✓			
.....	✓	✓	✓	✓	✓	✓	✓			

Same parameters continue for Alarm 2, 3 and 4.

4E38	ushort	1	-	Alarm Output Number : 0 - 5	1	✓	✓	✓	✓	✓	✓	✓	✓		
4E3C	ushort	1	-	Alarm on lower threshold cause: 0x0000: Alarm Yok 0x0011: VLN1, 0x0012: VLN2, 0x0013: VLN1 + VLN2 0x0014: VLN3, 0x0015: VLN1 + VLN3, 0x0016: VLN2 + VLN3 0x0017: VLN1 + VLN2 + VLN3, 0x0018: VLN4 0x0021: VLL1, 0x0022: VLL2, 0x0023: VLL1 + VLL2, 0x0024: VLL3 0x0025: VLL1 + VLL3, 0x0026: VLL2 + VLL3, 0x0027: VLL1 + VLL2 + VLL3 0x0031: IL1, 0x0032: IL2, 0x0033: IL1 + IL2, 0x0034: IL3, 0x0035: IL1 + IL3 0x0036: IL2 + IL3, 0x0037: IL1 + IL2 + IL3 0x0038: IL4 0x0040: IN 0x0051: P1, 0x0052: P2, 0x0053: P1 + P2, 0x0054: P3, 0x0055: P1 + P3 0x0056: P2 + P3, 0x0057: P1 + P2 + P3, 0x0058: P4 0x0060: PSUM IMP 0x0070: PSUM EXP, 0x0080: PSUM 0x0091: Q1, 0x0092: Q2, 0x0093: Q1 + Q2, 0x0094: Q3, 0x0095: Q1 + Q3 0x0096: Q2 + Q3, 0x0097: Q1 + Q2 + Q3, 0x0098: Q4 0x00A0: QSUM IMP, 0x00B0: QSUM EXP, 0x00C0: QSUM 0x00D1: S1, 0x00D2: S2, 0x00D3: S1 + S2, 0x00D4: S3, 0x00D5: S1 + S3 0x00D6: S2 + S3, 0x00D7: S1 + S2 + S3, 0x00D8: S4 0x00E0: SSUM IMP, 0x00F0: SSUM EXP, 0x1000: SSUM, 0x0111: IL1 Demand, 0x0112: IL2 Demand, 0x0113: IL1 + IL2 Demand, 0x0114: IL3 Demand, 0x0115: IL1 + IL3 Demand, 0x0116: IL2 + IL3 Demand, 0x0117: IL1 + IL2 + IL3 Demand, 0x0118: IL4 Demand 0x0120: IN Demand, 0x0131: P1 Demand, 0x0132: P2 Demand, 0x0133: P1 + P2 Demand, 0x0134: P3 Demand, 0x0135: P1 + P3, 0x0136: P2 + P3 Demand, 0x0137: P1 + P2 + P3 Demand, 0x0138: P4 Demand 0x0140: PSUM Demand Imp,	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4E3D	int	2	Depends on parameter	Alarm 4 on lower threshold min value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓	✓		
4E3F	ushort	1	-	Alarm 4 on upper threshold cause: 0x0000: Alarm Yok 0x0011: VLN1, 0x0012: VLN2, 0x0013: VLN1 + VLN2 0x0014: VLN3, 0x0015: VLN1 + VLN3, 0x0016: VLN2 + VLN3 0x0017: VLN1 + VLN2 + VLN3, 0x0018: VLN4 0x0021: VLL1, 0x0022: VLL2, 0x0023: VLL1 + VLL2, 0x0024: VLL3 0x0025: VLL1 + VLL3, 0x0026: VLL2 + VLL3, 0x0027: VLL1 + VLL2 + VLL3 0x0031: IL1, 0x0032: IL2, 0x0033: IL1 + IL2, 0x0034: IL3, 0x0035: IL1 + IL3 0x0036: IL2 + IL3, 0x0037: IL1 + IL2 + IL3 0x0038: IL4 0x0040: IN 0x0051: P1, 0x0052: P2, 0x0053: P1 + P2, 0x0054: P3, 0x0055: P1 + P3 0x0056: P2 + P3, 0x0057: P1 + P2 + P3, 0x0058: P4 0x0060: PSUM IMP 0x0070: PSUM EXP, 0x0080: PSUM 0x0091: Q1, 0x0092: Q2, 0x0093: Q1 + Q2, 0x0094: Q3, 0x0095: Q1 + Q3 0x0096: Q2 + Q3, 0x0097: Q1 + Q2 + Q3, 0x0098: Q4 0x00A0: QSUM IMP, 0x00B0: QSUM EXP, 0x00C0: QSUM 0x00D1: S1, 0x00D2: S2, 0x00D3: S1 + S2, 0x00D4: S3, 0x00D5: S1 + S3 0x00D6: S2 + S3, 0x00D7: S1 + S2 + S3, 0x00D8: S4 0x00E0: SSUM IMP, 0x00F0: SSUM EXP, 0x1000: SSUM, 0x0111: IL1 Demand, 0x0112: IL2 Demand, 0x0113: IL1 + IL2 Demand, 0x0114: IL3 Demand, 0x0115: IL1 + IL3 Demand, 0x0116: IL2 + IL3 Demand, 0x0117: IL1 + IL2 + IL3 Demand, 0x0118: IL4 Demand 0x0120: IN Demand, 0x0131: P1 Demand, 0x0132: P2 Demand, 0x0133: P1 + P2 Demand, 0x0134: P3 Demand, 0x0135: P1 + P3, 0x0136: P2 + P3 Demand, 0x0137: P1 + P2 + P3 Demand, 0x0138: P4 Demand 0x0140: PSUM Demand Imp,	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4E40	int	2	Depends on parameter.	Alarm 4 on upper threshold max. value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓	✓		
4E42	uint	2	5	Alarm 4 Duration	1	✓	✓	✓	✓	✓	✓	✓	✓		

EVENT LOG RECORD

Supported Functions	Start Address	Register Counts
Read holding registers	8016	19

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
1F50	uint	2	Unix Time	Start Time	1	✓	✓	✓	✓	✓	✓	✓
1F52	uint	2	Unix Time	End Time	1	✓	✓	✓	✓	✓	✓	✓
1F54	uint	2	Second	Duration	1	✓	✓	✓	✓	✓	✓	✓
1F56	ushort	1	?	Cycle	?	✓	✓	✓	✓	✓	✓	✓
1F57	ushort	1	-	Type	1	✓	✓	✓	✓	✓	✓	✓
1F58	ushort	1	-	Source	1	✓	✓	✓	✓	✓	✓	✓
1F59	ushort	1	-	Param	1	✓	✓	✓	✓	✓	✓	✓
1F5A	int	2	Depends on parameter	High	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
1F5C	int	2	Depends on parameter	Low	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
1F5E	int	2	Depends on parameter	High Value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
1F60	int	2	Depends on parameter	Low Value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
1F62	ushort	1	-	Index	1	✓	✓	✓	✓	✓	✓	✓

RESET

Supported Functions	Start Address	Register Counts
Write holding registers	8000	2

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
1F40	short	1	-	Record Index: -1: Next Record 1-500: Record Index	-	✓	✓	✓	✓	✓	✓	✓

RESET

Supported Functions	Start Address	Register Counts
Write holding registers	14000	1

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
36B0	ushort	1	-	Reset Action Code: 0x01: MAX 0x02: MIN 0x04: DEMAND 0x08: MAX DEMAND 0x10: ENERGY 0x20: TARIFF ENERGY 0x40: GENERATOR ENERGY 0x80: PULSE COUNTER 0x100: WORKING HOUR 0x600 All	-	✓	✓	✓	✓	✓	✓	✓

Record Settings

Supported Functions	Start Address	Register Counts
Read holding registers	21000	15
Write single register		
Write multiple registers		

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
5208	ushort	1	-	Profile Records Enable: 0: Disable 1: Enable	1				✓	✓	✓	✓
5209	ushort	1	-	Profile Synchronizing: 0: Disable 1: Enable	1				✓	✓	✓	✓

520A	ushort	1	Minutes	Profile Records Record Time: 0: 1 Minute 1: 5 Minutes 2: 10 Minutes 3: 15 Minutes 4: 20 Minutes 5: 30 Minutes 6: 60 Minutes	1					✓	✓	✓	✓
520B	ushort	1	-	Current Records Enable:	1					✓	✓	✓	✓
520C	ushort	1	-	Current Synchronizing: 0: Disable 1: Enable	1					✓	✓	✓	✓
520D	ushort	1	Minutes	Current Records Record Time: 0: 1 Minute 1: 5 Minutes 2: 10 Minutes 3: 15 Minutes 4: 20 Minutes 5: 30 Minutes 6: 60 Minutes	1					✓	✓	✓	✓
520E	ushort	1	-	Voltage Records Enable: 0: Disable 1: Enable	1					✓	✓	✓	✓
520F	ushort	1	-	Voltage Synchronizing: 0: Disable 1: Enable	1					✓	✓	✓	✓
5210	ushort	1	Minutes	Voltage Records Record Time: 0: 1 Minute 1: 5 Minutes 2: 10 Minutes 3: 15 Minutes 4: 20 Minutes 5: 30 Minutes 6: 60 Minutes	1					✓	✓	✓	✓
5211	ushort	1	-	Power Records Enable: 0: Disable 1: Enable	1					✓	✓	✓	✓
5212	ushort	1	-	Power Synchronizing: 0: Disable 1: Enable	1					✓	✓	✓	✓
5213	ushort	1	Minutes	Power Records Record Time: 0: 1 Minute 1: 5 Minutes 2: 10 Minutes 3: 15 Minutes 4: 20 Minutes 5: 30 Minutes 6: 60 Minutes	1					✓	✓	✓	✓
5214	ushort	1	-	THD Records Enable: 0: Disable 1: Enable	1					✓	✓	✓	✓
5215	ushort	1	-	THD Synchronizing: 0: Disable 1: Enable	1					✓	✓	✓	✓
5216	ushort	1	Minutes	THD Records Record Time: 0: 1 Minute 1: 5 Minutes 2: 10 Minutes 3: 15 Minutes 4: 20 Minutes 5: 30 Minutes 6: 60 Minutes	1					✓	✓	✓	✓

Records Index Register

Supported Functions	Start Address	Register Counts
Read holding registers	21200	10
Write multiple registers		

The index values which is closest in the date written in time stamp register will be read in this register.

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
520D	uint	2	-	Profile Records Index Register	1				✓	✓	✓	✓
52D2	uint	2	-	Voltage Records Index Register	1				✓	✓	✓	✓
52D4	uint	2	-	Current Records Index Register	1				✓	✓	✓	✓
52D6	uint	2	-	Power Records Index Register	1				✓	✓	✓	✓
52D8	uint	2	-	THD Records Index Register	1				✓	✓	✓	✓

Profile Records

Supported Functions	Start Address	Register Counts
Read holding registers	23000	28

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
59D8	uint	2	Unix Time	Record Start Time	1				✓	✓	✓	✓
59DA	uint	2	Unix Time	Record End Time	1				✓	✓	✓	✓
59DC	uint	2	W	Consumed Active Energy	1				✓	✓	✓	✓
59DE	uint	2	VAR	Q1 Reactive Energy	1				✓	✓	✓	✓
59E0	uint	2	VAR	Q4 Reactive Energy	1				✓	✓	✓	✓
59E2	uint	2	VA	Consumed Apparent Energy	1				✓	✓	✓	✓
59E4	uint	2	W	Delivered Active Energy	1				✓	✓	✓	✓
59E6	uint	2	VAR	Q2 Reactive Energy	1				✓	✓	✓	✓
59E8	uint	2	VAR	Q3 Reactive Energy	1				✓	✓	✓	✓
59EA	uint	2	VA	Delivered Apparent Energy	1				✓	✓	✓	✓
59EC	uint	2	W	Consumed Active Energy Tariff Generator	1				✓	✓	✓	✓
59EE	ushort	1	-	Pulse Counter 1	1				✓	✓	✓	✓
59EF	ushort	1	-	Pulse Counter 2	1				✓	✓	✓	✓
59F0	ushort	1	-	Pulse Counter 3	1				✓	✓	✓	✓
59F1	ushort	1	-	Pulse Counter 4	1				✓	✓	✓	✓
59F2	uint	2	-	Record Index	1				✓	✓	✓	✓

Current Records

Supported Functions	Start Address	Register Counts
Read holding registers	24000	30

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
SDC0	uint	2	Unix Time	Record End Time	1				✓	✓	✓	✓
SDC2	uint	2	Unix Time	Record Start Time	1				✓	✓	✓	✓
SDC4	uint	2	A	Average Current IL1	0.001				✓	✓	✓	✓
SDC6	uint	2	A	Average Current IL2	0.001				✓	✓	✓	✓
SDC8	uint	2	A	Average Current IL3	0.001				✓	✓	✓	✓
SDCA	uint	2	A	Average Current ILN	0.001				✓	✓	✓	✓
SDCC	uint	2	A	Max Current IL1	0.001				✓	✓	✓	✓
SDCE	uint	2	A	Max Current IL2	0.001				✓	✓	✓	✓
SDD0	uint	2	A	Max Current IL3	0.001				✓	✓	✓	✓
SDD2	uint	2	A	Max Current ILN	0.001				✓	✓	✓	✓
SDD4	uint	2	A	Min Current IL1	0.001				✓	✓	✓	✓
SDD6	uint	2	A	Min Current IL2	0.001				✓	✓	✓	✓
SDD8	uint	2	A	Min Current IL3	0.001				✓	✓	✓	✓
SDDA	uint	2	A	Min Current ILN	0.001				✓	✓	✓	✓
SDDC	uint	2	-	Record Index	1				✓	✓	✓	✓

Voltage Records

Supported Functions	Start Address	Register Counts
Read holding registers	25000	54

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
61A8	uint	2	-	Record End Time	1				✓	✓	✓	✓
61AA	uint	2	Unix Time	Record Start Time	1				✓	✓	✓	✓
61AC	uint	2	V	Voltage L1-N	0.1				✓	✓	✓	✓
61AE	uint	2	V	Voltage L2-N	0.1				✓	✓	✓	✓
61B0	uint	2	V	Voltage L3-N	0.1				✓	✓	✓	✓
61B2	uint	2	V	Voltage L4-N	0.1				✓	✓	✓	✓
61B4	uint	2	V	Voltage L1-L2	0.1				✓	✓	✓	✓
61B6	uint	2	V	Voltage L2-L3	0.1				✓	✓	✓	✓
61B8	uint	2	V	Voltage L3-L1	0.1				✓	✓	✓	✓
61BA	uint	2	Hz	Frequency	0.01				✓	✓	✓	✓
61BC	uint	2	V	Voltage L1-N	0.1				✓	✓	✓	✓
61BE	uint	2	V	Voltage L2-N	0.1				✓	✓	✓	✓
61C0	uint	2	V	Voltage L3-N	0.1				✓	✓	✓	✓
61C2	uint	2	V	Voltage L4-N	0.1				✓	✓	✓	✓
61C4	uint	2	V	Voltage L1-L2	0.1				✓	✓	✓	✓
61C6	uint	2	V	Voltage L2-L3	0.1				✓	✓	✓	✓
61C8	uint	2	V	Voltage L3-L1	0.1				✓	✓	✓	✓
61CA	uint	2	Hz	Frequency	0.01				✓	✓	✓	✓
61CC	uint	2	V	Voltage L1-N	0.1				✓	✓	✓	✓
61CE	uint	2	V	Voltage L2-N	0.1				✓	✓	✓	✓
61D0	uint	2	V	Voltage L3-N	0.1				✓	✓	✓	✓
61D2	uint	2	V	Voltage L4-N	0.1				✓	✓	✓	✓
61D4	uint	2	V	Voltage L1-L2	0.1				✓	✓	✓	✓
61D6	uint	2	V	Voltage L2-L3	0.1				✓	✓	✓	✓
61D8	uint	2	V	Voltage L3-L1	0.1				✓	✓	✓	✓
61DA	uint	2	Hz	Frequency	0.01				✓	✓	✓	✓
61DC	uint	2	-	Record Index	1				✓	✓	✓	✓

Power Records

Supported Functions	Start Address	Register Counts
Read holding registers	26000	64

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
6590	uint	2	Unix Time	Record End Time	1				✓	✓	✓	✓
6592	uint	2	Unix Time	Record Start Time	1				✓	✓	✓	✓
6594	float	2	W	Total Import Active Power	1				✓	✓	✓	✓
6596	float	2		Total Export Active Power	1				✓	✓	✓	✓
6598	float	2	VAR	Quadrant 1 average total reactive power	1				✓	✓	✓	✓
659A	float	2	VAR	Quadrant 2 average total reactive power	1				✓	✓	✓	✓
659C	float	2		Quadrant 3 average total reactive power	1				✓	✓	✓	✓
659E	float	2		Quadrant 4 average total reactive power	1				✓	✓	✓	✓
65A0	float	2	VA	Average total import apparent power	1				✓	✓	✓	✓
65A2	float	2	W	Average total export apparent power	1				✓	✓	✓	✓
65A4	uint	2	-	Average total inductive import cosphi value	0.001				✓	✓	✓	✓
65A6	uint	2	-	Average total capacitive import cosphi value	0.001				✓	✓	✓	✓
65A8	uint	2	-	Average total inductive export cosphi value	0.001				✓	✓	✓	✓
65AA	uint	2	-	Average total capacitive export cosphi value	0.001				✓	✓	✓	✓
65AC	uint	2	-	Average total PF	0.001				✓	✓	✓	✓
65AE	float	2	W	Max. Total import active power	1				✓	✓	✓	✓
65B0	float	2	W	Max. Total export active power	1				✓	✓	✓	✓
65B2	float	2	VAR	Max. Total Q1 Reactive Power	1				✓	✓	✓	✓
65B4	float	2	VAR	Max. Total Q2 Reactive Power	1				✓	✓	✓	✓
65B6	float	2	VAR	Max. Total Q3 Reactive Power	1				✓	✓	✓	✓
65B8	float	2	VAR	Max. Total Q4 Reactive Power	1				✓	✓	✓	✓
65BA	float	2	VA	Max. Total Import Apparent Power	1				✓	✓	✓	✓
65BC	float	2	VA	Max. Total Export Apparent Power	1				✓	✓	✓	✓
65BE	float	2	W	Min. Total Import Active Power	1				✓	✓	✓	✓
65C0	float	2	W	Min. Total Export Active Power	1				✓	✓	✓	✓
65C2	float	2	VAR	Min. Total Q1 Reactive Power	1				✓	✓	✓	✓
65C4	float	2	VAR	Min. Total Q2 Reactive Power	1				✓	✓	✓	✓
65C6	float	2	VAR	Min. Total Q3 Reactive Power	1				✓	✓	✓	✓
65C8	float	2	VAR	Min. Total Q4 Reactive Power	1				✓	✓	✓	✓
65CA	float	2	VA	Min. Total Import Apparent Power	1				✓	✓	✓	✓
65CC	float	2	VA	Min. Total Export Apparent Power	1				✓	✓	✓	✓
65CE	uint	2	-	Record Index	1				✓	✓	✓	✓

THD Records

Supported Functions	Start Address	Register Counts
Read holding registers	27000	60

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
6978	uint	2	Unix Time	Record Start Time	1				✓	✓	✓	✓
697A	uint	2	Unix Time	Record End Time	1				✓	✓	✓	✓
697C	uint	2	%	Average Total Harmonic Distorsion VL1	0.1				✓	✓	✓	✓
697E	uint	2	%	Average Total Harmonic Distorsion VL2	0.1				✓	✓	✓	✓
6980	uint	2	%	Average Total Harmonic Distorsion VL3	0.1				✓	✓	✓	✓
6982	uint	2	%	Average Total Harmonic Distorsion VLL12	0.1				✓	✓	✓	✓
6984	uint	2	%	Average Total Harmonic Distorsion VLL23	0.1				✓	✓	✓	✓
6986	uint	2	%	Average Total Harmonic Distorsion VLL31	0.1				✓	✓	✓	✓
6988	uint	2	%	Average Total Harmonic Distorsion IL1	0.1				✓	✓	✓	✓
698A	uint	2	%	Average Total Harmonic Distorsion IL2	0.1				✓	✓	✓	✓
698C	uint	2	%	Average Total Harmonic Distorsion IL3	0.1				✓	✓	✓	✓
698E	uint	2	%	Max Total Harmonic Distorsion VL1	0.1				✓	✓	✓	✓
6990	uint	2	%	Max Total Harmonic Distorsion VL2	0.1				✓	✓	✓	✓
6992	uint	2	%	Max Total Harmonic Distorsion VL3	0.1				✓	✓	✓	✓
6994	uint	2	%	Max Total Harmonic Distorsion VLL12	0.1				✓	✓	✓	✓
6996	uint	2	%	Max Total Harmonic Distorsion VLL23	0.1				✓	✓	✓	✓
6998	uint	2	%	Max total Harmonic Distorsion VLL31	0.1				✓	✓	✓	✓
699A	uint	2	%	Max Total Harmonic Distorsion IL1	0.1				✓	✓	✓	✓
699C	uint	2	%	Max Total Harmonic Distorsion IL2	0.1				✓	✓	✓	✓
699E	uint	2	%	Max Total Harmonic Distorsion IL3	0.1				✓	✓	✓	✓
69A0	uint	2	%	Min Total Harmonic Distorsion VL1	0.1				✓	✓	✓	✓
69A2	uint	2	%	Min Total Harmonic Distorsion VL2	0.1				✓	✓	✓	✓
69A4	uint	2	%	Min Total Harmonic Distorsion VL3	0.1				✓	✓	✓	✓
69A6	uint	2	%	Min Total Harmonic Distorsion VLL12	0.1				✓	✓	✓	✓
69A8	uint	2	%	Min Total Harmonic Distorsion VLL23	0.1				✓	✓	✓	✓
69AA	uint	2	%	Min Total Harmonic Distorsion VLL31	0.1				✓	✓	✓	✓
69AC	uint	2	%	Min Total Harmonic Distorsion IL1	0.1				✓	✓	✓	✓
69AE	uint	2	%	Min Total Harmonic Distorsion IL2	0.1				✓	✓	✓	✓
69B0	uint	2	%	Min Total Harmonic Distorsion IL3	0.1				✓	✓	✓	✓
69B2	uint	2	-	Record Index	1				✓	✓	✓	✓

Device Identification

Supported Functions	Start Address	Register Counts
Read holding registers	60416	16

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR345-11	MPR325	MPR345-20	MPR455	MPR465	MPR475	MPR42-OGT
EC00	ushort	1	-	Device ID	1	✓	✓	✓	✓	✓	✓	✓
EC01	ushort	1	-	Device ID & Version No	1	✓	✓	✓	✓	✓	✓	✓
EC02	uint	2	-	Serial Number	1	✓	✓	✓	✓	✓	✓	✓
EC04	uint	2	-	Software Version	1	✓	✓	✓	✓	✓	✓	✓
EC06	uint	2	-	Hardware Version	1	✓	✓	✓	✓	✓	✓	✓
EC08	uint	2	-	Modbus Table Version	1	✓	✓	✓	✓	✓	✓	✓
EC0A	uint	2	-	Boot loader version	1	✓	✓	✓	✓	✓	✓	✓
EC0C	uint	2	Unix Time	Fabrication Date	1	✓	✓	✓	✓	✓	✓	✓
EC0E	uint	2	Unix Time	Calibration Date	1	✓	✓	✓	✓	✓	✓	✓

MODEL	Available Features
MPR32	Alarm
MPR325	Alarm, RS-485
MPR34-11	Alarm, THD I&V, Tariff, 1DI/1DO

MPR345-11	Alarm, RS-485, THD I&V, Tariff, 1DI/1DO
MPR34-20	Alarm, THD I&V, Tariff, 2DI
MPR345-20	Alarm, RS-485, THD I&V, Tariff, 2DI
MPR45	Work Hour, Event Logs
MPR455	Work Hour, Alarm, Records, Event Logs
MPR46	Work Hour, Event Logs
MPR465	Work Hour, Alarm, Records, Event Logs
MPR475	Work Hour, Alarm, Records, Event Logs

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