## MPR 3X-4X Register table

Read h	olding re	gisters	0	162								
Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
0000	uint	2	V/10	Voltage L1-N	0.1	· /	· /	<b>V</b>	· /	✓.	<i>\</i>	· /
0002 0004	uint uint	2	V/10 V/10	Voltage L2-N	0.1 0.1	· /	· /	· ·	✓ ✓	<b>V</b>		· ·
0004	uint	2	V/10 V/10	Voltage L3-N Voltage L4-N	0.1	· ·	•	•	· ·			· ·
0008	uint	2	V/10	Voltage L1-L2	0.1	/	<b>/</b>	_	· /	~	~	·
000A	uint	2	V/10	Voltage L2-L3	0.1	· ·	<b>~</b>	<b>✓</b>	· ·	<b>√</b>	<b>√</b>	✓
000C	uint	2	V/10	Voltage L3-L1	0.1	<b>/</b>	<b>/</b>	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>~</b>	✓
000E	uint	2	mA	Current L1	0.001	<b>/</b>	✓	✓	✓	✓	✓	✓
0010 0012	uint uint	2	mA mA	Current L2	0.001 0.001	· /	1	· /	<del></del>		- /	· ·
0012	uint	2	mA	Current L4	0.001	T T	·	·	· ·	· ·		,
0014	uint	2	mA	Neutral Current = IL1+IL2+IL3	0.001	<b>/</b>	<b>√</b>	<b>√</b>	· /	· /	· /	<b>✓</b>
0018	uint	2	Hz / 100	Measured frequency	0.01	/	<b>✓</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>	<b>✓</b>
001A	float	2	W	Active power L1-N	1	· ·	<b>/</b>	✓	✓	<b>✓</b>	<b>~</b>	✓
001C	float	2	W	Active power L2-N	1	<b>V</b>	· ·	· /	· ·	✓ ✓	<b>*</b>	✓ ✓
001E 0020	float float	2	W	Active power L3-N	1	~	~			<b>√</b>	~	·
0020	float	2	W	Active power L4-N Total import active power	1	_	_	_	_	_	_	_
0024	float	2	W	Total export active power	1	/	· /	· /	· /	/	· /	/
0026	float	2	W	∑Active Power +/- = ∑P =P1+P2+P3	1	<b>✓</b>	✓	✓	<b>✓</b>	<b>✓</b>	✓	<b>√</b>
0028	float	2	var	Reactive power L1	1	·	<b>~</b>	✓	✓	✓	<b>~</b>	✓
002A	float	2	var	Reactive power L2	1	<b>✓</b>	✓	✓	✓	✓	✓	<b>√</b>
002C	float	2	var	Reactive power L3	1	✓	<b>√</b>	<b>✓</b>	✓	<b>√</b>	✓	✓
002E 0030	float float	2	var	Reactive power L4	1							
0030	float	2	var	Quadrant 1 total reactive power	1		· /	· /	· ·	· /	· ·	· /
0032	float	2	var	Quadrant 2 total reactive power Quadrant 3 total reactive power	1	-	· ·	-		· ·	· ·	· ·
0036	float	2	var	Quadrant 4 total reactive power	1	-	· /	-	-	· /	· /	7
0038	float	2	var	∑Reactive Power +/- = ∑Q=Q1+Q2+Q3	1	_	✓	✓	✓	✓	✓	~
003A	float	2	VA	Apperant power L1-N	1	<b>/</b>	<b>~</b>	✓	✓	✓	<b>~</b>	✓
003C	float	2	VA	Apparent power L2-N	1	✓	✓	<b>✓</b>	✓	✓	✓	✓
003E	float	2	VA	Apparent power L3-N	1	✓	✓	✓	✓	✓	✓	<b>√</b>
0040	float	2	VA	Apparent power L4-N	1	_	_	_		_	_	_
0042 0044	float float	2	VA VA	Total import apperant power	1	· ·	-	-	<del></del>		-	· ·
0046	float	2	VA	Total export apperant power  ΣApperant Power +/- = ΣS=S1+S2+S3	1	· ·	-	-	· ·	-	-	,
0048	int	2	-	Power Factor L1	0.001	/	✓	✓	<b>✓</b>	✓	✓	✓
004A	int	2	-	Power Factor L2	0.001	· ·	✓	✓	✓	✓	✓	✓
004C	int	2		Power Factor L3	0.001	✓	<b>*</b>	✓	<b>✓</b>	<b>√</b>	<b>*</b>	✓
004E	int	2	-	Power Factor L4	0.001							
0050	int	2	-	∑POWER FACTOR +/- = ∑PF=PFL1+PFL2+PFL3	0.001	<b>V</b>	· ·	· /	· ·	· ·	<b>*</b>	✓ ✓
0052 0054	int	2	-	CosPhi L1	0.001 0.001	· ·	· /	· ·		· ·	· ·	· /
0056	int	2	-	CosPhi L3	0.001	· ·						,
0058	int	2	-	CosPhi L4	0.001							
005A	int	2	-	∑Cos Phi = COS_L1 + COS_L2 + COS_L3	0.001	·	<b>✓</b>	<b>~</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>✓</b>
005C	int	2		Rotation field; 1=right, 0=none, -1=left	1	✓	<b>√</b>	✓	✓	✓	✓	✓
005E	uint	2	%	Voltage Unbalance	0.1						✓	
0060	uint	2	%	Current Unbalance	0.1		_			_	· /	
0062 0064	ulong	2	Angle Angle	L1 Phase Voltage Angle	0.1	· ·	· ·	· ·		-/	· ·	· /
0066	ulong	2	Angle	L2 Phase Voltage Angle L3 Phase Voltage Angle	0.1		· /	· ·	· ·	· ·	· ·	· ·
0068	ulong	2	Angle	L4 Phase Voltage Angle	0.1							
006A	ulong	2	Angle	L1 Phase Current Angle	0.1	<b>/</b>	<b>*</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>*</b>	<b>✓</b>
006C	ulong	2	Angle	L2 Phase Current Angle	0.1	<b>✓</b>	✓	✓	✓	✓	✓	✓
006E	ulong	2	Angle	L3 Phase Current Angle	0.1	/	<b>√</b>	<b>/</b>	✓	<b>√</b>	✓	<b>√</b>
0070	ulong	2	Angle	L4 Phase Current Angle	0.1							
0072 0074	float	2		Analog Input 1	1							
0074	float	2		Analog Input 2 Analog Input 3	1							
0078	float	2		Analog Input 4	1							
007A	float	2		Analog Input 5	1							
007C	float	2		Analog Input 6	1							
007E	float	2		Analog Input 7	1							
0080	float	2		Analog Input 8	1							
0082	float	2		Analog Output 1	1				0	0	0	0
0084	float	2	- i-	Analog Output 2	1				0	0	0	0
0088	float	2		Analog Output 3 Analog Output 4	1				0	0	0	0
0088 008A	float	2	°C	Temperature Input 1	1				0	0	0	0
008C	float	2	°C	Temperature Input 2	1				0	0	0	0
008E	float	2	°C	Temperature Input 3	1				0	0	0	0
0090	float	2	°C	Temperature Input 4	1				0	0	0	0
0092	float	2	-	Temperature Input 5	1							
0094	float	2		Temperature Input 6	1							
0096	float	2	-	Temperature Input 7	1							
0098	float	2		Temperature Input 8	1							
009A 009C	uint uint	2	h/1000 h/1000	Hour Meter ( Non Resetable )	0.001 0.001	· ·	1	<b>✓</b>	· ·	· ·	<b>√</b>	✓ ✓
009E	uint	2	11/1000	Working Hour Counter Input Status	0.001							· ·
009E	uint	2		Output Status		· ·		-		· ·	· ·	· ·

		Energy							
Supported Functions	Start Address	Register Counts							
Read holding registers	200	178							

Address	Format	Word	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
Hex		Counts	***				,			_		
00C8	Ulong	4	Wh	Consumed Active Energy L1	1	<b>√</b>	· ·		•	· /		
00CC	Ulong	4	Wh	Consumed Active Energy L2	1	· /	· /	· /		· /		· /
00D0	Ulong	4	Wh	Consumed Active Energy L3	1	· ·	~	~		~		✓
00D4	Ulong	4	Wh	Consumed Active Energy L4	1							
00D8	Ulong	4	Wh	Total Consumed Energy L1L3	1	✓	✓	✓	✓	✓	✓	✓
00DC	Ulong	4	Wh	Delivered Active Energy L1	1				✓	✓	✓	✓
00E0	Ulong	4	Wh	Delivered Active Energy L2	1				✓	<b>✓</b>	✓	✓
00E4	Ulong	4	Wh	Delivered Active Energy L3	1				✓	✓	✓	✓
00E8	Ulong	4	Wh	Delivered Active Energy L4	1							
00EC	Ulong	4	Wh	Total Delivered Energy L1L3	1	✓	<b>~</b>	<b>✓</b>	✓	<b>✓</b>	✓	✓
00F0	Ulong	4	VAh	Consumed Apparent energy L1	1	✓	<b>~</b>	✓	<b>√</b>	<b>✓</b>	✓	✓
00F4	Ulong	4	VAh	Consumed Apparent energy L2	1	✓	✓	✓	✓	✓	✓	✓
00F8	Ulong	4	VAh	Consumed Apparent energy L3	1	✓	✓	✓	✓	✓	✓	✓
00FC	Ulong	4	VAh	Consumed Apparent energy L4	1							
0100	Ulong	4	VAh	Total Consumed Apperant Energy L1L3	1	✓	✓	✓	✓	✓	✓	✓
0104	Ulong	4	VAh	Delivered Apperant Energy L1	1				<b>√</b>	✓	<b>✓</b>	✓
0108	Ulong	4	VAh	Delivered Apperant Energy L2	1				<b>√</b>	✓	<b>√</b>	<b>✓</b>
010C	Ulong	4	VAh	Delivered Apperant Energy L3	1				<b>√</b>	✓	<b>√</b>	<b>✓</b>
0110	Ulong	4	VAh	Delivered Apperant Energy L4	1							
0114	Ulong	4	VAh	Total Delivered Apparent energy L1L3	1	✓	✓	<b>√</b>	✓	✓	<b>✓</b>	✓
0118	Ulong	4	Varh	Quadrant 1 Reactive Energy L1	1				<b>/</b>	·	·	✓
011C	Ulong	4	Varh	Quadrant 1 Reactive Energy L2	1				V	·	<b>/</b>	<b>✓</b>
0120	Ulong	4	Varh	Quadrant 1 Reactive Energy L3	1				<b>√</b>	✓	<b>~</b>	✓
0124	Ulong	4	Varh	Quadrant 1 Reactive Energy L4	1							
0128	Ulong	4	Varh	Quadrant 1 total reactive Energy	1	✓	<b>/</b>	✓	<b>√</b>	✓	<b>V</b>	✓
012C	Ulong	4	Varh	Quadrant 2 Reactive Energy L1	1				✓	✓	✓	✓
0130	Ulong	4	Varh	Quadrant 2 Reactive Energy L2	1				✓	✓	✓	✓
0134	Ulong	4	Varh	Quadrant 2 Reactive Energy L3	1				✓	✓	✓	✓
0138	Ulong	4	Varh	Quadrant 2 Reactive Energy L4	1							
013C	Ulong	4	Varh	Quadrant 2 total reactive Energy	1	1	<b>√</b>	<b>✓</b>	✓	✓	<b>/</b>	<b>✓</b>
0140	Ulong	4	Varh	Quadrant 3 Reactive Energy L1	1				✓	·	✓	✓

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

Supported Functions Start Address Register Counts
Write sinele register 1500 150

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	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 L1L3	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 L1L3	1							
0604	Ulong	4	VAh	Consumed Apparent energy L1	1							
0608	Ulong	4	VAh	Consumed Apparent energy L2	1							
060C	Ulong	4	VAh	Consumed Apparent energy L3	1							
0610	Ulong	4	VAh	Consumed Apparent energy L4	1							
0614	Ulong	4	VAh	Total Consumed Apperant Energy L1L3	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 Apparent energy L1L3	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 tarif

 Supported Functions
 Start Address
 Register Counts

 Read holding registers
 500
 42

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
01F4	ushort	1		Number Of Tarriff	1				_			
01F5	ushort	1	-	Tarrif Number In Progress	1				· /	/	/	/
01F6	ulong	4	kWh	Positive Active Energies Tarriff1	1				✓	✓	<b>✓</b>	✓
01FA	ulong	4	kWh	Positive Active Energies Tarriff2	1				✓	<b>✓</b>	·	✓
01FE	ulong	4	kWh	Positive Active Energies Tarriff3	1				✓	✓	<b>√</b>	<b>✓</b>
0202	ulong	4	kWh	Positive Active Energies Tarriff4	1				✓	~	✓	✓
0206	ulong	4	kWh	Positive Active Energies Tarriff5	1				~	~	<b>~</b>	✓
020A	ulong	4	kWh	Positive Active Energies Tarriff6	1				<b>√</b>	<b>~</b>	<b>/</b>	✓
020E	ulong	4	kWh	Positive Active Energies Tarriff7	1				✓	✓	✓	✓
0212	ulong	4	kWh	Positive Active Energies Tarriff8	1				✓	✓	✓	✓
0216	ulong	4	kWh	Generator Energies	1	~		~	<b>√</b>	✓	7	·
021A	ulong	4	kWh	Total tarriff energies	1	/		<b>~</b>	V	~	V	·

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	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	_	<b>✓</b>	1	<b>√</b>	<b>✓</b>	·	/
0324	uint	2	V/10	L2 Phase Max Voltage	0.1	✓	✓	<b>/</b>	✓	·	1	✓
0326	uint	2	Time	L2 Phase Max Voltage Time	Unix Time Stamp	<b>✓</b>	✓	<b>/</b>	✓	·	1	✓
0328	uint	2	V/10	L3 Phase Max Voltage	0.1	<b>✓</b>	✓	<b>√</b>	<b>/</b>	✓	✓	✓
032A	uint	2	Time	L3 Phase Max Voltage Time	Unix Time Stamp	<b>/</b>	✓	✓	✓	<b>✓</b>	✓	✓
032C	uint	2	V/10	L4 Phase Max Voltage	0.1				<b>~</b>	<b>V</b>	✓	✓
032E	uint	2	Time	L4 Phase Max Voltage Time	Unix Time Stamp				<b>V</b>	✓	1	·
0330	uint	2	V/10	L1-L2 Max Voltage	0.1	1	✓	✓	✓	✓	<	/
0332	uint	2	Time	L1-L2 Max Voltage Time	Unix Time Stamp	<b>/</b>	✓	<b>√</b>	<b>✓</b>	✓	<b>√</b>	✓
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	✓	✓	<b>√</b>	<b>✓</b>	✓	<b>√</b>	✓
033A	uint	2	Time	L3-L1 Max Voltage Time	Unix Time Stamp	<b>V</b>	✓	✓	✓	✓	<b>~</b>	<b>✓</b>
033C	uint	2	A/10	L1 Phase Max Current	0.001	/	✓	✓	✓	✓	<	<b>/</b>
033E	uint	2	Time	L1 Phase Max Current Time	Unix Time Stamp	/	✓	✓	<b>~</b>	·	<b>~</b>	<b>~</b>
0340	uint	2	A/10	L2 Phase Max Current	0.001	/	✓	✓	✓	✓	<	<b>/</b>
0342	uint	2	Time	L2 Phase Max Current Time	Unix Time Stamp	·	✓	✓	✓	✓	<	<b>/</b>
0344	uint	2	A/10	L3 Phase Max Current	0.001	<b>✓</b>	✓	✓	✓	✓	<b>~</b>	✓
0346	uint	2	Time	L3 Phase Max Current Time	Unix Time Stamp	/	✓	✓	✓	✓	<	<b>/</b>
0348	uint	2	A/10	L4 Phase Max Current	0.001				<b>✓</b>	✓	<b>√</b>	
034A	uint	2	Time	L4 Phase Max Current Time	Unix Time Stamp				<b>√</b>	<b>✓</b>	<b>√</b>	
034C	uint	2	A/10	IN Max Current	0.001	✓	✓	~	<b>~</b>	<b>✓</b>	✓	✓
034E	uint	2	Time	IN Max Current Time	Unix Time Stamp	<b>✓</b>	✓	✓	<b>✓</b>	✓	<b>√</b>	✓
0350	float	2	W/10	L1 Phase Max Active Power	1	✓	✓	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	✓
0352	uint	2	Time	L1 Phase Max Active Power Time	Unix Time Stamp	V	✓	<b>✓</b>	<b>~</b>	✓	<b>✓</b>	✓
0354	float	2	W/10	L2 Phase Max Active Power	1	✓	✓	✓	<b>✓</b>	✓	<b>√</b>	✓
0356	uint	2	Time	L2 Phase Max Active Power Time	Unix Time Stamp	<b>~</b>	✓	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	✓
0358	float	2	W/10	L3 Phase Max Active Power	1	✓	✓	✓	<b>✓</b>	✓	<b>√</b>	✓
035A	uint	2	Time	L3 Phase Max Active Power Time	Unix Time Stamp	<b>✓</b>	✓	✓	<b>~</b>	✓	<b>√</b>	✓
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	<b>~</b>	✓	<b>~</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>~</b>
0362	uint	2	Time	Max Total Import Active Power Time	Unix Time Stamp	<b>~</b>	✓	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	✓
0364	float	2	W/10	Max Total Export Active Power	1	✓	✓	<b>✓</b>	✓	✓	<b>✓</b>	✓
0366	uint	2	Time	Max Total Export Active Power Time	Unix Time Stamp	·	✓	·	<b>V</b>	<b>√</b>	1	·

_						,		,				
0368 036A	float	2	W/10 Time	Max Total Active Power  Max Total Active Power Time	1 Unix Time Stamp	✓ ✓	√ ✓	√ √	√ ✓	√ ✓	<b>√</b>	<b>√</b>
036C 036E	float uint	2	Var/10 Time	L1 Phase Max Reactive Power L1 Phase Max Reactive Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	<b>✓</b>
0370 0372	float	2	Var/10 Time	L2 Phase Max Reactive Power L2 Phase Max Reactive Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>√</b>	<b>√</b>
0374 0376	float	2	Var/10 Time	L3 Phase Max Reactive Power L3 Phase Max Reactive Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	✓ ✓
0378 037A	float	2	Var/10 Time	L4 Phase Max Reactive Power L4 Phase Max Reactive Power Time	1 Unix Time Stamp							
037C 037E	float	2	Var/10 Time	Quadrant 1 Max Reactive Power  Quadrant 1 Max Reactive Power Time	1 Unix Time Stamp	✓ ✓	√ √	√ √	√ √	√ √	<b>√</b>	√ √
0380 0382	float	2	Var/10 Time	Quadrant 2 Max Reactive Power  Quadrant 2 Max Reactive Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	√ √
0384 0386	float	2	Var/10 Time	Quadrant 3 Max Reactive Power Quadrant 3 Max Reactive Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	<b>√</b>
0388 038A	float	2	Var/10 Time	Quadrant 4 Max Reactive Power Quadrant 4 Max Reactive Power Time	1 Unix Time Stamp	<i>✓</i>	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>√</b>
038C 038E	float	2	Var/10 Time	Quadrant Total Max Reactive Power Quadrant Total Max Reactive Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>√</b>	<b>✓</b>
0390 0392	float uint	2	VA/10 Time	L1 Phase Max Apperant Power L1 Phase Max Apperant Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	<b>√</b>	✓ ✓	<b>√</b>	<b>√</b>	<b>✓</b>
0394 0396	float	2	VA/10 Time	L2 Phase Max Apperant Power L2 Phase Max Apperant Power Time	1 Unix Time Stamp	✓ ✓	<b>✓</b>	<b>√</b>	✓ ✓	<b>√</b>	<b>√</b>	√ √
0398 039A	float	2	VA/10 Time	L3 Phase Max Apperant Power L3 Phase Max Apperant Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	<b>✓</b>	✓ ✓
039C 039E	float	2	VA/10 Time	L4 Phase Max Apperant Power L4 Phase Max Apperant Power Time	1 Unix Time Stamp							
03A0 03A2	float	2	VA/10 Time	Max Total Import Apperant Power Max Total Import Apperant Power Time	1 Unix Time Stamp	✓ ✓	√ √	✓ ✓	✓ ✓	✓ ✓	<b>√</b>	√ √
03A4 03A6	float	2	VA/10 Time	Max Total Export Apperant Power	1 Unix Time Stamp	· /	1	· /	· /	· /	· /	· ·
03A8	float	2	VA/10	Max Total Export Apperant Power Time Max Total Apperant Power	1	· ·	· ·	· ·	· ·	· ·	· ·	· · · · · · · · · · · · · · · · · · ·
03AA 03AC	uint	2	Time F/10	Max Total Apperant Power Time  Max System Frequency	Unix Time Stamp 0.1	7	1	<b>✓</b>	<b>✓</b>	1	✓	·
03AE 03B0	uint uint	2	Time %	Max System Frequency Time L1 Phase Max. Voltage THD	Unix Time Stamp 0.1	<i>'</i>	· /	· /	1	√ ✓	<i>*</i>	<b>∀</b>
03B2 03B4	uint uint	2	Time %	L1 Phase Max. Voltage THD Time L2 Phase Max Voltage THD	Unix Time Stamp 0.1	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	<b>√</b>
03B6 03B8	uint uint	2	Time %	L2 Phase Max. Voltage THD Time L3 Phase Max. Voltage THD	Unix Time Stamp 0.1	✓ ✓	√ ✓	✓ ✓	√ ✓	✓ ✓	<b>✓</b>	<b>√</b>
03BA 03BC	uint uint	2	Time %	L3 Phase Max. Voltage THD Time L4 Phase Max. Voltage THD	Unix Time Stamp 0.1	<b>~</b>	<b>-</b>	<b>-</b>	·	<b>√</b>	<b>√</b>	<b>√</b>
03BE 03C0	uint uint	2	Time %	L4 Phase Max. Voltage THD Time L1-L2 Max Voltage THD	Unix Time Stamp 0.1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>√</b>
03C2 03C4	uint uint	2	Time %	L1-L2 Max Voltage THD Time L2-L3 Max Voltage THD	Unix Time Stamp 0.1	✓ ✓	✓ ✓	✓	✓ ✓	√ √	<b>✓</b>	<b>✓</b>
03C6 03C8	uint uint	2	Time %	L2-L3 Max Voltage THD Time L3-L1 Max Voltage THD	Unix Time Stamp 0.1	✓ ✓	√ √	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	<b>√</b>
03CA 03CC	uint uint	2	Time %	L3-L1 Max Voltage THD Time L1 Phase Max Current THD	Unix Time Stamp 0.1	✓ ✓	✓ ✓	<b>√</b>	✓ ✓	<b>√</b>	<b>√</b>	<b>√</b>
03CE 03D0	uint uint	2	Time %	L1 Phase Max Current THD Time L2 Phase Max Current THD	Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	√ √
03D2 03D4	uint	2	Time %	12 Phase Max Current THD Time 13 Phase Max Current THD Time	Unix Time Stamp	1	1	· /	· /	√ ✓	· ·	· /
03D6 03D8	uint	2	Time %	L3 Phase Max Current THD Time L4 Phase Max Current THD	Unix Time Stamp 0.1	<i></i>	1	<i>\</i>	1	· /	· /	1
03DA 03DC	uint	2	Time V/10	L4 Phase Max Current THD Time L1 Phase Min Voltage	Unix Time Stamp	_	_	_	<i>'</i>	√ √	· ·	<b>√</b>
03DE 03E0	uint uint	2	Time V/10	L1 Phase Min Voltage Time L2 Phase Min Voltage L2 Phase Min Voltage	Unix Time Stamp	· /	· /	· /	· /	· /	· ·	· ·
03E2	uint	2	Time	L2 Phase Min Voltage Time	Unix Time Stamp	· ·	· ·	· ·	· ·	· ·	· ·	· ·
03E4 03E6	uint	2	V/10 Time	L3 Phase Min Voltage L3 Phase Min Voltage Time	0.1 Unix Time Stamp	<i>*</i>	· /	· /	· /	· ·	· ·	· ·
03E8 03EA 03EC	uint	2 2 2	V/10 Time V/10	L4 Phase Min Voltage L4 Phase Min Voltage Time	0.1 Unix Time Stamp	_	_	_	<b>√</b>	· ·	· ·	<i>'</i>
03EE	uint	2	Time	L1-L2 Min Voltage L1-L2 Min Voltage Time	0.1 Unix Time Stamp	<i>'</i>	· /	· /	<b>/</b>	· /	· ·	· ·
03F0 03F2	uint	2	V/10 Time	L2-L3 Min Voltage L2-L3 Min Voltage Time	0.1 Unix Time Stamp	1	-	√ ✓	· /	√ ✓	1	· /
03F4 03F6	uint uint	2	V/10 Time	L3-L1 Min Voltage L3-L1 Min Voltage Time	0.1 Unix Time Stamp	✓ ✓	· /	✓ ✓	✓ ✓	√ ✓	<b>√</b>	√ ✓
03F8 03FA	uint uint	2	A/10 Time	L1 Phase Min Current L1 Phase Min Current Time	0.001 Unix Time Stamp	✓ ✓	√ ✓	√ ✓	√ ✓	√ ✓	<b>√</b>	<b>√</b>
03FC 03FE	uint uint	2	A/10 Time	L2 Phase Min Current L2 Phase Min Current Time	0.001 Unix Time Stamp	✓ ✓	7	√ √	√ ✓	√ ✓	<b>√</b>	<b>√</b>
0400 0402	uint uint	2	A/10 Time	L3 Phase Min Current L3 Phase Min Current Time	0.001 Unix Time Stamp	✓ ✓	<i>'</i>	√ √	√ ✓	√ ✓	<b>√</b>	<b>√</b>
0404	uint uint	2	A/10 Time	L4 Phase Min Current L4 Phase Min Current Time	0.001 Unix Time Stamp				√ ✓	√ ✓	<b>√</b>	
0408 040A	uint uint	2	A/10 Time	IN Min Current IN Min Current Time	0.001 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>*</b>	<b>✓</b>
040C 040E	float	2	W/10 Time	L1 Phase Min Active Power L1 Phase Min Active Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>√</b>	<b>√</b>
0410 0412	float	2	W/10 Time	L2 Phase Min Active Power L2 Phase Min Active Power Time	1 Unix Time Stamp	✓ ✓	√ ✓	√ ✓	√ ✓	✓ ✓	<b>&gt; &gt;</b>	<b>√</b>
0414 0416	float	2	W/10 Time	L3 Phase Min Active Power L3 Phase Min Active Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	<b>√</b>
0418 041A	float	2	W/10 Time	L4 Phase Min Active Power L4 Phase Min Active Power Time	1 Unix Time Stamp							
041C 041E	float uint	2	W/10 Time	Min Total Import Active Power Min Total Import Active Power Time	1 Unix Time Stamp	✓ ✓	<b>✓</b>	✓ ✓	✓ ✓	✓ ✓	<b>√</b>	<b>√</b>
0420 0422	float	2	W/10 Time	Min Total Export Active Power Min Total Export Active Power Time	1 Unix Time Stamp	✓ ✓	√ √	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	<b>✓</b>
0424	float	2	W/10 Time	Min Total Active Power Min Total Active Power Time	1 Unix Time Stamp	√ ✓	· /	√ √	· /	√ ✓	√ ✓	· ·
0428 042A	float	2	Var/10 Time	1.1 Phase Min Reactive Power L1 Phase Min Reactive Power L1 Phase Min Reactive Power Time	1 Unix Time Stamp	· /	· /	√ √	· /	√ ✓	✓ ✓	· · ·
042K 042C 042E	float	2 2	Var/10 Time	L2 Phase Min Reactive Power	1 Unix Time Stamp	· ·	· ·	· ·	· ·	· ·	· ·	· · · · · · · · · · · · · · · · · · ·
0430 0432	float	2 2	Var/10 Time	L2 Phase Min Reactive Power Time L3 Phase Min Reactive Power L3 Phase Min Reactive Power Time	1 Unix Time Stamp	<b>√</b>	· ·	√ ✓	√ √	√ ✓	<b>√</b>	· ·
0434	float	2	Var/10	L4 Phase Min Reactive Power	1				•	•		
0436 0438 043A	float	2 2	Var/10	L4 Phase Min Reactive Power Time Quadrant 1 Min Reactive Power Quadrant Min Reactive Power	Unix Time Stamp  1  Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	√ √	✓ ✓	<i>*</i>	✓ ✓
043C	float	2	Time Var/10	Quadrant 1 Min Reactive Power Time Quadrant 2 Min Reactive Power	Unix Time Stamp  1	<i>'</i>	<i>*</i>	✓ ✓	<b>√</b>	✓ ✓	· ·	✓ ✓
043E 0440	float	2	Time Var/10	Quadrant 2 Min Reactive Power Time Quadrant 3 Min Reactive Power	Unix Time Stamp	<i>✓</i>	<i>y</i>	✓ ✓	√ ✓	✓ ✓	· ·	<i>y</i>
0442	uint	2	Time Var/10	Quadrant 3 Min Reactive Power Time Quadrant 4 Min Reactive Power	Unix Time Stamp	/	1	·	1	✓	·	√ ·
0446	uint	2	Time Var/10	Quadrant 4 Min Reactive Power Time Quadrant Total Min Reactive Power	Unix Time Stamp 1	√ ✓	1	√ √	√ √	√ ✓	<b>*</b>	<b>V</b>
044A 044C	uint float	2	Time VA/10	Quadrant Total Min Reactive Power Time L1 Phase Min Apperant Power	Unix Time Stamp 1	✓ ✓	√ ✓	√ √	√ ✓	√ √	<b>*</b>	<i>y</i>
044E 0450	uint float	2	Time VA/10	L1 Phase Min Apperant Power Time L2 Phase Min Apperant Power	Unix Time Stamp 1	<b>V</b>	√ √	√ √	√ √	√ √	<b>*</b>	<b>√</b>
0452 0454	uint	2	Time VA/10	L2 Phase Min Apperant Power Time L3 Phase Min Apperant Power	Unix Time Stamp 1	✓ ✓	√ √	√ ✓	√ ✓	√ ✓	<b>*</b>	<b>√</b>
0456 0458	uint float	2	Time VA/10	L3 Phase Min Apperant Power Time L4 Phase Min Apperant Power	Unix Time Stamp 1	<b>√</b>	<b>√</b>	✓ ·	<b>√</b>	<b>√</b>	<b>√</b>	1
045A 045C	uint float	2	Time VA/10	L4 Phase Min Apperant Power Time Min Total Import Apperant Power	Unix Time Stamp	·	_	·	·	<b>√</b>	<b>*</b>	<b>√</b>
045E 0460	uint float	2	Time VA/10	Min Total Import Apperant Power Time Min Total Export Apperant Power	Unix Time Stamp	✓ ✓	√ √	✓ ✓	√ √	✓ ✓	<b>√</b>	<b>√</b>
0462	uint	2	Time	Min Total Export Apperant Power Time Min Total Apperant Power Min Total Apperant Power	Unix Time Stamp	✓ ✓	<b>✓</b>	√ √	✓ ✓	√ √	<b>√</b>	<b>√</b>

0466	uint	2	Time	Min Total Apperant Power Time	Unix Time Stamp	<b>✓</b>	✓	<b>√</b>	<b>~</b>	<b>✓</b>	<b>√</b>	<b>√</b>
0468 046A	uint uint	2	F/10 Time	Min System Frequency Min System Frequency Time	0.1 Unix Time Stamp	✓ ✓	✓ ✓	✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
046C	uint	2	%	L1 Phase Min. Voltage THD	0.1	· /	· /	· /	· /	· /	· /	· /
046E 0470	uint uint	2	Time %	L1 Phase Min. Voltage THD Time L2 Phase Min Voltage THD	Unix Time Stamp 0.1	<b>*</b>	<b>√</b>	<b>√</b>	·	<b>√</b>	· ·	1
0472 0474	uint uint	2	Time %	L2 Phase Min. Voltage THD Time L3 Phase Min. Voltage THD	Unix Time Stamp 0.1	· /	✓ ✓	· /	✓ ✓	· ·	· ·	✓ ✓
0476	uint	2	Time %	L3 Phase Min. Voltage THD Time	Unix Time Stamp	<b>✓</b>	✓	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>✓</b>
0478 047A	uint uint	2	Time	L4 Phase Min. Voltage THD L4 Phase Min. Voltage THD Time	0.1 Unix Time Stamp							
047C 047E	uint uint	2	% Time	L1-L2 Min Voltage THD L1-L2 Min Voltage THD Time	0.1 Unix Time Stamp	✓ ✓	<b>✓</b>	<b>✓</b>	✓ ✓	✓ ✓	<b>√</b>	✓ ✓
0480 0482	uint uint	2	% Time	L2-L3 Min Voltage THD	0.1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	√ √	· /	✓ ✓	√ √
0484	uint	2	%	L2-L3 Min Voltage THD Time L3-L1 Min Voltage THD	0.1	<b>✓</b>	✓	✓	✓	·	✓	✓
0486 0488	uint uint	2	Time %	L3-L1 Min Voltage THD Time L1 Phase Min Current THD	Unix Time Stamp 0.1	<b>✓</b>	<b>✓</b>	<b>✓</b>	√ ✓	<b>✓</b>	<b>√</b>	√ √
048A 048C	uint uint	2	Time %	L1 Phase Min Current THD Time L2 Phase Min Current THD	Unix Time Stamp 0.1	✓ ✓	✓ ✓	√ √	· /	· /	√ √	√ √
048E	uint	2	Time	L2 Phase Min Current THD Time	Unix Time Stamp	<b>~</b>	✓	✓	1	/	✓	✓
0490 0492	uint uint	2	% Time	L3 Phase Min Current THD L3 Phase Min Current THD Time	0.1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	√ √
0494 0496	uint uint	2	% Time	L4 Phase Min Current THD L4 Phase Min Current THD Time	0.1 Unix Time Stamp				<b>4</b>	· /	· /	· /
0498	uint	2	mA	L1 Phase Current Demand	0.001	· /	· /	· /	1	7	· /	1
049A 049C	uint uint	2	mA mA	L2 Phase Current Demand L3 Phase Current Demand	0.001 0.001	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
049E 04A0	uint uint	2	mA mA	L4 Phase Current Demand IN Current Demand	0.001 0.001		_	_	√ √	· ·	<b>✓</b>	✓ ✓
04A2	float	2	W/10	L1 Phase Active Power Demand	1	·	·	·	· /	·	·	√ √
04A4 04A6	float	2	W/10 W/10	L2 Phase Active Power Demand L3 Phase Active Power Demand	1	<b>✓</b>	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>&gt;</b>	√ ✓
04A8 04AA	float	2	W/10 W/10	L4 Phase Active Power Demand Total Import Active Power Demand	1		_	_	_	_	·	_
04AC	float	2	W/10	Total Export Active Power Demand	1	7	7	1	1	·	1	7
04AE 04B0	float	2	W/10 Var/10	Total Active Power Demand L1 Phase Reactive Power Demand	1							
04B2 04B4	float	2	Var/10 Var/10	12 Phase Reactive Power Demand 13 Phase Reactive Power Demand	1							
04B6	float	2	Var/10	L4 Phase Reactive Power Demand	1							
04B8 04BA	float	2	Var/10 Var/10	Quadrant 1 Total Reactive Powe Demand Quadrant 2 Total Reactive Powe Demand	1							
04BC	float	2	Var/10	Quadrant 3 Total Reactive Powe Demand	1							
04BE 04C0	float	2	Var/10 Var/10	Quadrant 4 Total Reactive Powe Demand Total Reactive Power Demand	1							
04C2 04C4	float	2	VA/10 VA/10	L1 Phase Apperant Power Demand L2 Phase Apperant Power Demand	1	· /	· /	✓ ✓	✓ ✓	· ·	✓ ✓	✓ ✓
04C6	float	2	VA/10	L3 Phase Apperant Power Demand	1	<b>✓</b>	✓	<b>√</b>	✓	<b>√</b>	✓	✓
04C8 04CA	float	2	VA/10 VA/10	L4 Phase Apperant Power Demand Total Import Apperant Power Demand	1	<b>~</b>	<b>✓</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>
04CC 04CE	float	2	VA/10 VA/10	Total Export Apperant Power Demand Total Apperant Power Demand	1	<b>✓</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
04D0	uint	2	mA	L1 Phase Max. Current Demand	0.001	·	· /	·	·	<b>V</b>	<b>V</b>	<b>V</b>
04D2 04D4	uint uint	2	Time mA	L1 Phase Max. Current Demand Time L2 Phase Max. Current Demand	Unix Time Stamp 0.001	<b>✓</b>	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	✓ ✓	<b>✓</b>
04D6 04D8	uint uint	2	Time mA	L2 Phase Max. Current Demand Time L3 Phase Max. Current Demand	Unix Time Stamp 0.001	✓ ✓	✓ ✓	√ √	√ √	· /	√ √	√ √
04DA	uint	2	Time	L3 Phase Max. Current Demand Time	Unix Time Stamp	· /	· /	· /	✓	/	✓	· /
04DC 04DE	uint uint	2	mA Time	L4 Phase Max. Current Demand L4 Phase Max. Current Demand Time	0.001 Unix Time Stamp				√ ✓	<b>✓</b>	✓ ✓	
04E0 04E2	uint uint	2	mA Time	IN Max. Current Demand IN Phase Max. Current Demand Time	0.001 Unix Time Stamp	<i>'</i>	· /	√ √	<b>√</b>	· ·	<b>√</b>	√ √
04E4	float	2	W/10	PL1 Max Active Import Power	1	<b>~</b>	✓	✓	1	<b>✓</b>	✓	<b>√</b>
04E6 04E8	uint float	2	Time W/10	PL1 Max Active Import Power Time PL1 Max Active Export Power	Unix Time Stamp 1	✓ ✓	✓ ✓	✓ ✓	· /	· ·	✓ ✓	<b>√</b>
04EA 04EC	uint float	2	Time W/10	PL1 Max Active Export Power Time PL2 Max Active Import Power	Unix Time Stamp	· /	· /	· /	· /	· /	· /	√ √
04EE	uint	2	Time	PL2 Max Active Import Power PL2 Max Active Import Power Time	Unix Time Stamp	/	·	·	1	✓	1	· /
04F0 04F2	float	2	W/10 Time	PL2 Max Active Export Power PL2 Max Active Export Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	√ √
04F4	float	2	W/10	PL3 Max Active Import Power	1 Unix Time Stamp	<b>✓</b>	· ·	<b>√</b>	√ √	<b>√</b>	√ √	√ √
04F6 04F8	uint float	2	Time W/10	PL3 Max Active Import Power Time PL3 Max Active Export Power	Unix Time Stamp	~	~	~	7	~	~	· /
04FA 04FC	uint float	2	Time W/10	PL3 Max Active Export Power Time PL4 Max Active Import Power	Unix Time Stamp		<b>✓</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>
04FE	uint	2	Time	PL4 Max Active Import Power Time	Unix Time Stamp							
0500 0502	float uint	2	W/10 Time	PL4 Max Active Export Power PL4 Max Active Export Power Time	1 Unix Time Stamp							
0504 0506	float	2	W/10 Time	Total Active Power Import Max Demand Total Active Power Import Max Demand Time	1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓	√ √	✓ ✓	<b>√</b>	✓ ✓
0508	float	2	W/10	Total Active Power Export Max Demand	1	· /	<i>\</i>	· /	√ ✓	· /	· /	· ·
050A 050C	uint float	2	Time Var/10	Total Active Power Export Max Demand Time  L1 Phase Max Demand Reactive Power	Unix Time Stamp 1	*	*	*	·	*	*	· ·
050E 0510	uint float	2	Time Var/10	L1 Phase Max Demand Reactive Power Time L2 Phase Max Demand Reactive Power	Unix Time Stamp							
0512	uint	2	Time	L2 Phase Max Demand Reactive Power Time	Unix Time Stamp							
0514 0516	float uint	2	Var/10 Time	L3 Phase Max Demand Reactive Power L3 Phase Max Demand Reactive Power Time	1 Unix Time Stamp							
0518 051A	float	2	Var/10 Time	L4 Phase Max Demand Reactive Power L4 Phase Max Demand Reactive Power Time	1 Unix Time Stamp							
051C	float	2	Var/10	Quadrant 1 Max Demand Reactive Power	1							
051E 0520	uint float	2	Time Var/10	Quadrant 1 Max Demand Reactive Power Time Quadrant 2 Max Demand Reactive Power	Unix Time Stamp 1							
0522 0524	uint float	2	Time Var/10	Quadrant 2 Max Demand Reactive Power Time Quadrant 3 Max Demand Reactive Power	Unix Time Stamp							
0526	uint	2	Time	Quadrant 3 Max Demand Reactive Power Time	Unix Time Stamp							
0528 052A	float	2	Var/10 Time	Quadrant 4 Max Demand Reactive Power  Quadrant 4 Max Demand Reactive Power Time	1 Unix Time Stamp							
052C 052E	float	2	Var/10 Time	Quadrant Total Max Demand Reactive Power	1 Unix Time Stamp							
0530	float	2	W/10	Quadrant Total Max Demand Reactive Power Time SL1 Max Demand Import Power	1	<b>V</b>	<b>V</b>	<b>V</b>	1	<b>V</b>	<b>V</b>	· /
0532 0534	float float	2	Time W/10	SL1 Max Demand Import Power Time SL1 Max Demand Export Power	Unix Time Stamp 1	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	√ √
0536 0538	uint	2	Time W/10	SL1 Max Demand Export Power Time	Unix Time Stamp	✓ ✓	✓ ✓	<b>√</b>	√ √	<b>√</b>	√ √	√ √
053A	uint	2	Time	SL2 Max Demand Import Power SL2 Max Demand Import Power Time	Unix Time Stamp	<b>~</b>	✓	<b>✓</b>	<b>√</b>	<b>~</b>	<b>~</b>	✓
053C 053E	float	2	W/10 Time	SL2 Max Demand Export Power SL2 Max Demand Export Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	√ √	√ √	✓ ✓	√ ✓	√ √
0540	float	2	W/10	SL3 Max Demand Import Power	1	<b>~</b>	✓	<b>✓</b>	1	1	/	· /
0542 0544	uint float	2	Time W/10	SL3 Max Demand Import Power Time SL3 Max Demand Export Power	Unix Time Stamp 1	✓ ✓	✓ ✓	✓ ✓	√ √	✓ ✓	√ √	<i>✓</i>
0546 0548	uint float	2	Time W/10	SL3 Max Demand Export Power Time SL4 Max Demand Import Power	Unix Time Stamp 1	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>
054A	uint	2	Time	SL4 Max Demand Import Power Time	Unix Time Stamp							
054C 054E	float	2	W/10 Time	SL4 Max Demand Export Power SL4 Max Demand Export Power Time	1 Unix Time Stamp							
0550 0552	float	2	VA/10 Time	Total Apperant Power Import Max Demand Total Apperant Power Import Max Demand Time	1 Unix Time Stamp	<b>✓</b>	✓ ✓	<b>√</b>	√ √	<b>√</b>	<b>√</b>	√ √
0554	float	2	VA/10	Total Apperant Power Export Max Demand	1	/	·	✓	✓	✓	1	✓
0556	uint	2	Time	Total Apperant Power Export Max Demand Time	Unix Time Stamp	<b>~</b>	✓	✓	✓	✓	✓	✓

Harmonics	

		THD
Supported Functions	Start Address	Register Counts

Read holding registers	2000	24

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
07D0	uint	2	%	Total Harmoic Distorsion VLL12	0.1	<b>√</b>		<b>✓</b>		<b>✓</b>	<b>√</b>	
07D2	uint	2	%	Total Harmoic Distorsion VLL23	0.1	<b>~</b>		<b>✓</b>		·	<b>√</b>	· ·
07D4	uint	2	%	Total Harmoic Distorsion VLL31	0.1	<b>~</b>		<b>✓</b>		·	<b>√</b>	· ·
07D6	uint	2	%	Total Harmonic Distorsion VL1	0.1	~		~		~	✓	✓
07D8	uint	2	%	Total Harmonic Distorsion VL2	0.1	✓		✓		✓	<b>/</b>	✓
07DA	uint	2	%	Total Harmonic Distorsion VL3	0.1	<b>~</b>		<b>✓</b>		·	<b>√</b>	· ·
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	<b>~</b>		<b>✓</b>		·	<b>√</b>	<b>✓</b>
07E2	uint	2	%	Total Harmonic Distorsion IL3	0.1	<b>~</b>		<b>✓</b>		·	<b>√</b>	· ·
07E4	uint	2	%	Total Harmonic Distorsion IL4	0.1					✓	<b>/</b>	
07E6	uint	2	%	Total Harmonic Distorsion IN	0.1	/		✓		✓	<b>✓</b>	✓

## Supported Functions Read holding registers Start Address Register Counts 251

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
OBB8	ushort	1	%	Number Of Harmonics	0.1						·	· ·
0BB9	ushort	1	%	H_IL1_2	0.1						✓	✓
OBBA	ushort	1	%	H_IL2_2	0.1						✓	✓
OBBB	ushort	1	%	H_IL3_2	0.1						✓	✓
OBBC	ushort	1	%	H_IL4_2	0.1							
OBBD	ushort	1	%	H_ILN_2	0.1						✓	✓
OBBE	ushort	1	%	H_IL1_3	0.1						<b>~</b>	✓
OBBF	ushort	1	%	H_IL2_3	0.1						✓	✓
0BC0	ushort	1	%	H_IL3_3	0.1						✓	✓
OBC1	ushort	1	%	H_IL4_3	0.1							
0BC2	ushort	1	%	H_ILN_3	0.1						<b>✓</b>	✓
											✓	✓
											<b>✓</b>	<b>✓</b>
											✓	✓
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						✓	1
0CAF	ushort	1	%	H_IL2_51	0.1						<b>~</b>	<b>~</b>
OCB0	ushort	1	%	H_IL3_51	0.1						✓	✓
OCB1	ushort	1	%	H_IL4_51	0.1							
OCB2	ushort	1	%	H_ILN_51	0.1						<b>✓</b>	1

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

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
0FA0	ushort	1	%	Number Of Harmonics	0.1						✓	✓
0FA1	ushort	1	%	H_V1_2	0.1						✓	<b>✓</b>
0FA2	ushort	1	%	H_V2_2	0.1						<b>~</b>	<b>V</b>
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						<b>√</b>	<b>✓</b>
1063	ushort	1	%	H_V3_50	0.1						✓	✓
1064	ushort	1	%	H_V4_50	0.1							
1065	ushort	1	%	H_V1_51	0.1						<b>√</b>	✓
1066	ushort	1	%	H_V2_51	0.1						<b>√</b>	<b>✓</b>
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	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	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						<b>✓</b>	✓
138B	ushort	1	%	H_VLL3_1_2	0.1						✓	✓
138C	ushort	1	%	H_VLL1_2_3	0.1						<b>✓</b>	✓
138D	ushort	1	%	H_VLL2_3_3	0.1						<b>~</b>	✓
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						<b>~</b>	✓
1391	ushort	1	%	H_VLL3_1_4	0.1						✓	✓
											✓	✓
											<b>✓</b>	✓
											✓	✓
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						<b>~</b>	<b>✓</b>
141C	ushort	1	%	H_VLL1_2_51	0.1						<b>~</b>	<b>✓</b>
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		Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
4000	ushort	1	-	Network Type: 0: 3P4W 1: 3P3W 2: ARON 3: 3P4W Balanced 4: 3P3W Balanced	1	*	<b>~</b>	*	✓	<b>~</b>	*	<b>~</b>
4001	ushort	1		Current Transformer Secondary: 0: 1A 1: 5A	1	<b>~</b>	1	1	<b>√</b>	1	1	1
4002	ushort	1		Current Transformer Primary: 5 9999	1	~	✓	~	✓	✓	✓	✓
	ushort	1	-	Voltage Transformer Present: 0-None 1-Present	1	*	✓	*	✓	<b>*</b>	*	✓
4004	ushort	1		Voltage Transformer Secondary: 50 300	1	<b>✓</b>	✓	✓	✓	✓	✓	✓

			1	Voltage Transformer Primary:			l					
4005	uint	2	v	voltage Transformer Primary: 50 999999	1	✓	✓	✓	✓	✓	✓	✓
				P Demand Time:								
				1: 1 Minute								
				5: 5 Minutes								
				10: 10 Minutes								
4007	ushort	1	Minutes	15: 15 Minutes	1							
				20: 20 Minutes								
				30: 30 Minutes								
				60: 60 Minutes								
				I Demand Time:								
				1: 1 Minute								
				5: 5 Minutes								
4008	ushort	1	Minutes	10: 10 Minutes	1	/	1	/	/	/	✓	/
4008	usiloit	1	iviiilutes	15: 15 Minutes	1	'	′	,	,	,		
				20: 20 Minutes								
				30: 30 Minutes								
				60: 60 Minutes								
				V Average Time								
				1: 1 Minute								
				5: 5 Minutes								
4009	ushort	1	Minutes	10: 10 Minutes	1							
				15: 15 Minutes								
				20: 20 Minutes								
				30: 30 Minutes 60: 60 Minutes								
				System Frequency:								
400A	ushort	1	Hz	o: 50 Hz	1	/	1	/	/	/	✓	✓
	33.1011	1 1	.12	1: 60 Hz	-	ĺ	<b>1</b>					
				System Voltage:								
400B	uint	2	V	VT_Primary 25V* primary/secondary	1	✓	✓	✓	✓	✓	✓	✓
				Systen Current:			,	,	,	,	,	
400D	ushort	1	A	CT Primary 1A	1	<b>~</b>	✓	✓	✓	✓	✓	✓
				Sag Level:					_		,	
400E	ushort	1	%	70% 98%	0.1				~	✓	✓	
400F	ushort	1	%	Sag Hysteresis:	0.1				·	<b>/</b>	·	
400F	usnort	1	%	0.5% 5%	0.1				•	•	•	
4010	ushort	1	%	Swell Level:	0.1				1	·	/	
4010	USHOIT	1	%	102% 130%	0.1				,	•	•	
4011	ushort	1	%	Swell Hysteresis:	0.1				<b>~</b>	<b>/</b>	·	
4011	usiloit	1	76	0.5% 5%	0.1				,	,		

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

Write multiple registers

Hex	ormat	Word	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
		Counts		Network Type:								
				0: 3P4W 1: 3P3W								
4268 us	ushort	1	-	2: ARON	1	✓	✓	✓	✓	~	✓	✓
				3: 3P4W Balanced 4: 3P3W Balanced								
				Current Transformer Secondary:								
4269 u:	ushort	1	Α	0: 1A 1: 5A	1	~	✓	<b>~</b>	✓	~	✓	✓
426A u:	short	1	A	Current Transformer Primary:	1	✓	·	1	·	✓	·	·
				5 9999 Voltage Transformer Present:								
426B u	ushort	1	-	0-None 1-Present	1	~	✓	✓	✓	~	✓	✓
426C u:	ushort	1	v	Voltage Transformer Secondary:	1	·	✓	1	✓	1	✓	✓
				50 300 Voltage Seconder Primary:		· ·			· ·	·	· ·	· ·
426D	uint	2	V	50 999999	1		✓	1		~		~
				P Demand Time: 1: 1 Minute								
				5: 5 Minutes 10: 10 Minutes								
426F u:	ushort	1	Minutes	15: 15 Minutes	1							
				20: 20 Minutes 30: 30 Minutes								
				60: 60 Minutes								
				I Demand Time: 1: 1 Minute								
				5: 5 Minutes								
4270 u:	ushort	1	Minutes	10: 10 Minutes 15: 15 Minutes	1	✓	✓	1	✓	✓	✓	✓
				20: 20 Minutes								
				30: 30 Minutes 60: 60 Minutes								
				V Average Time								
				1: 1 Minute 5: 5 Minutes								
4271 u:	ushort	1	Minutes	10: 10 Minutes	1							
				15: 15 Minutes 20: 20 Minutes								
				30: 30 Minutes 60: 60 Minutes								
				System Frequency:								
4272 u:	ushort	1	Hz	0: 50 Hz 1: 60 Hz	1	<b>~</b>	✓	✓	✓	~	✓	✓
4273	uint	2	v	System Voltage:	1	·	<	<b>~</b>	<b>~</b>	·	✓	<b>✓</b>
4275 u	ushort	1	A	VT_Primary25V* primary/secondary Systen Current:	1	·	·	·	<b>✓</b>	·	·	<b>√</b>
				CT_Primary 1A Sag Level:		·			· ·	· ·		·
4276 u:	ushort	1	%	70% 98%	0.1						✓	
4277 u	ushort	1	%	Sag Hysteresis: 0.5% 5%	0.1				✓	~	✓	
4278 u:	ushort	1	%	Swell Level: 102% 130%	0.1				✓	✓	✓	
4279 u:	ushort	1	%	Swell Hysteresis: 0.5% 5%	0.1				<b>√</b>	1	✓	
				OUT1 Type:								
427A u:	ushort	1	-	0: REMOTE 1: PULSE	1	✓			0	0	0	0
				2: ALARM								
427B us	ushort	1		OUT2 Type: 0: REMOTE	1				0	0	0	0
427B U	Isnort	1	-	1: PULSE 2: ALARM	1				U	U	U	U
				OUT3 Type:								
427C u:	ushort	1	-	0: REMOTE 1: PULSE	1				О	О	0	0
				2: ALARM								
				OUT4 Type: 0: REMOTE								
427D u:	ushort	1	-	1: PULSE	1				0	0	0	0
				2: ALARM INPUT1 Type:								
427E u:	ushort	1		0: digital	1	✓		_	О	О	0	0
- ["				1: N/A 2: Generator	_							
				INPUT2 Type:								
		1	-	0: digital	1			✓	0	0	0	0
427F u:	ushort	*		1: PULSE 2: Generator								

4280	ushort	1	-	INPUT3 Type: 0: digital 1: PULSE	1			0	0	0	0
4281	ushort	1		2: Generator INPUTA Type: 0: digital 1: PULSE	1			0	0	0	0
				2: Generator							
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: V.N.J. 1: V.N.Z. 2: V.N.S. 3: V.N.4 4: V.L.I. 5: V.L.G. 6: V.L.S. 7: I.L.J. 8: I.Z. 9: II.S. 10: I.L.J. 11: I.N 12: I.L.J. Demand, 1.S: I.L.D Demand, 1.S: I.L.D Demand 15: I.A.D Demand, 1.S: I.L.D Demand, 1.S: SUM QUAD 1, 31: SUM QUAD 2, 32: SUM QUAD 3, 33: SUM QUAD 4, 34: SUM S. 35: SUM S. IMP, 36: SUM S. EXP. 37: SUM P. IMP 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: ILLD Demand, 45: ILLD Dema	1			0	0	0	O
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: Analog Output 2 Parameter:	1			0	0	0	0
4289	ushort	1	- Depends on		1 Depends on parameter			0	0	0	0
428A 428C	uint	2	parameter Depends on	Analog Output2 High  Analog Output2 Low	Depends on parameter  Depends on parameter			0	0	0	0
428E	ushort	1	parameter -	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 Depends on	Analog Output4 High	Depends on parameter			0	0	0	0
4298	uint	2	parameter	Analog Output4 Low Pulse Input 1:	Depends on parameter			0	0	0	0
429A	ushort	1	-	0: Pasive 1: Active	1				0	0	0
429B	ushort	1		Pulse Input 1 Ratio: 1 – 20000	1				0	0	0
429C	ushort	1	-	Pulse Input 2: 0: Pasive	1				0	0	0
429D	ushort	1		1: Active Pulse Input 2 Ratio: 1 20000	1				0	0	0
429E	ushort	1		1 20000 Pulse Input 3: 0: Pasive	1				0	0	0
429F	ushort	1	-	1: Active Pulse Input 3 Ratio:	1				0	0	0
				1 20000 Pulse Input 4:							
42A0	ushort	1		0: Pasive 1: Active Pulse Input 4 Ratio:	1				0	0	0
42A1	ushort	1	-	Pulse Input 4 Ratio: 1 20000 Pulse Width:	1				0	0	0
42A2	ushort	1	ms	0. 20 ms 1. 40 ms 2. 60 ms 3. 80 ms 5. 150 ms 6. 200 ms 7. 300 ms 8. 400 ms 9. 500 ms	1				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 (Q10)  4: Total Export Reactive Energy (Q4)  5: Total Import Reactive Energy (Q3)  7: Total Import Reactive Energy (Q3)  7: Total Import Apperant Energy(Q14)  8: Total Export Reactive Energy (Q3)  7: Total Import Apperant Energy(Q14)  9: Total Export Active Energy (Q1)  10: Total Import Active Energy (Q1)  10: Total Import Active Energy (Q1)	1	·	*	o	o	0	0
42A4	ushort	1	Wh	Pulse Output 1 Ratio: 0:1 1:10 2:100 3:1000 4:10000 5:100000	1	<b>*</b>	*	0	0	0	0
42A5	ushort	1	ms	Pulse Output 1 Pulse Width: between 20 - 1000 ms	1	<b>4</b>	<b>√</b>	0	0	0	0
42A6	ushort	1	ms	Pulse Output 1 Pulse Duty: between 20 - 1000 ms	1	<b>√</b>	✓	0	0	0	0
42A7	ushort	1		Pulse Output 2 Parameter: Pulse Output 2 Ratio:	1			0	0	0	0
42A8	ushort	1	-	Pulse Output 2 Natio: Pulse Output 2 Pulse Width:	1			0	0	0	0
42A9	ushort	1	ms	Pulse Output 2 Pulse Duty:	1			0	0	0	0
42AA 42AB	ushort	1	ms -	Pulse Output3 Parameter:	1			0	0	0	0
42AB	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	·	·	<b>~</b>	<b>*</b>	<b>~</b>	<b>*</b>	<b>~</b>
4284	ushort	1		Alarma Parameter: 0 V.VN 1: V.L 2: IL 3: InC 4: 1 Demand 5: 10 Demand 6: 0.P 8: S 8: S 9: S 8: S 9: S 8: S 9: S 8: S 9: S 9: S 8: S 9: S 9	1	19,20,26,27 ,28: N/A	19,20,26,27 ,28: N/A	19,20,26,27 ,28: N/A	•	,	,	Ý
42B5	ushort	1	-	1: Less 2: In window 3: Out window	1	<b>~</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	✓	<b>√</b>
42B6	ushort	1	s	Alarm 1 On Time: 0 9999 Alarm 1 Off Time:	0.1	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>✓</b>
42B7	ushort	1	S	Alarm 1 OH Time: 0 9999 0: Output 1 1: Output 2	0.1	<b>√</b>	✓	<b>√</b>	·	·	·	· ·
42B8	ushort	1	Depends on	2: Output 3 3: Output 4	1	1,2,3:N/A	1,2,3:N/A	1,2,3:N/A	·	<b>*</b>	·	·
4289	int	2	parameter Depends on	Alarm 1 High Threshold Value	Depends on parameter	<b>√</b>	·	·	·	· ·	<b>√</b>	· ·
42BB 42BD	int	2	parameter %	Alarm 1 Low Threshold Value  Alarm 1 Hysteresis	Depends on parameter 0.1	✓ ✓	✓ ✓	✓ ✓	<b>√</b>	✓ ✓	<b>✓</b>	✓ ✓
42BE	ushort	1	-	Alarm2 Status:	1	✓	✓	✓	✓	✓	✓	1
42BF	ushort	1	-	Alarm2 Parameter:	1	✓	✓	✓	✓	✓	<b>✓</b>	<b>~</b>
42C0 42C1	ushort ushort	1	s s		1 0.1	✓ ✓	<b>√</b>	✓ ✓	<b>√</b>	✓ ✓	√ √	√ √
42C2 42C3	ushort ushort	1	s -		0.1	✓ ✓	<b>√</b>	✓ ✓	<b>✓</b>	✓ ✓	√ √	√ √
42C4	int	2	Depends on parameter		Depends on parameter	✓	✓	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>	<b>~</b>
42C6	int	2	Depends on parameter		Depends on parameter	<b>✓</b>	✓	✓	✓	✓	✓	<b>√</b>
42C8 42C9	ushort	1	%	 Alarm3 Status:	0.1	✓ ✓	✓	✓	· ·	✓ ✓	✓	✓ ✓
42CA	ushort	1	-	 Alarm3 Parameter:	1	· ·	·	· ·	·	·	·	·
42CB	ushort	1	-		1	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>V</b>	✓ ✓	✓ ✓
42CC 42CD	ushort	1	s s		0.1 0.1	<b>√</b>	1	<b>✓</b>	<b>✓</b>	✓ ✓	· ·	· ·
42CE 42CF	ushort	2	Depends on		1 Depends on parameter	✓ ✓	√ √	✓ ✓	0	0	0	0
42D1	int	2	parameter Depends on		Depends on parameter	✓	✓	✓	<b>√</b>	<b>√</b>	·	·
42D3	ushort	1	parameter %		0.1	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	1
42D4	ushort	1	-	Alarm4 Status:	1	✓	<b>*</b>	✓	✓	<b>✓</b>	✓	✓
42D5 42D6	ushort	1	-	Alarm4 Parameter:	1	✓ ✓	✓ ✓	✓ ✓	<b>✓</b>	✓ ✓	✓ ✓	✓ ✓
42D7	ushort	1	s s		0.1	· ·	· ·	· ·	· ·	· ·	· ·	· ·
42D8 42D9	ushort	1	-		0.1	· /	<i>'</i>	<i>*</i>	<i>'</i>	<i>\</i>	<i>\</i>	· /
42DA	int	2	Depends on parameter		Depends on parameter	✓	✓	✓	0	0	0	0
42DC 42DE	int	2	Depends on parameter %		Depends on parameter 0.1	✓ ✓	<b>✓</b>	<b>✓</b>	<b>4</b>	✓ ✓	<b>√</b>	✓ ✓
42DF 42E0	ushort	1		Reserved  WURKING HOUR COUNTER PARAMETER:  0. VLN  1. VLL  2. IL  3. In  4. ID emand  5. ID Demand  6. P  7. Q  8. S  9. SUM P  10. SUM P  10. SUM Q  11. SUM S  12. P Demand  14. SUM P Demand  15. SDemand  16. COS Phi  17. Sum COS Phi  18. Fequency  19. VLN4  20. ILA  21. THD V  22. THD U  22. THD U  22. THD U  23. THD I  25. IN A  25. In ID I  25. IN A  26. IN A  27. IN A  27. IN A  27. IN A  28. IN A	1	19,20,26,27 ,28: N/A	*	·	*	*	,	Ý
42E1	uint	2	ends on param	WORKING HOUR COUNTER PARAMETER LEVEL	Depends on parameter	<b>~</b>	<b>~</b>	~	<b>*</b>	<b>√</b>	<b>*</b>	<b>~</b>
				Modbus Protocol:								
42E3	ushort	1	-	0: MODBUS 1: ENTBUS Modbus Slave Address:	1							

				Modbus Baud Rate:								
				0: 2400								
				1: 4800								
4355				2: 9600	1	·	/	/	/	/	/	,
42E5	ushort	1	bps	3: 19200	1	ľ	· ·					
				4: 38400								
				5: 57600								
				6: 115200								
				Modbus Parity:								
42E6	ushort	1	bit	0 : None	1	/	/	/	/	✓	✓	✓
4220	usiloit	-	DIC .	1: Odd	*							
				2: Even								
				Password Activate:								
42E7	ushort	1	-	0: Passive	1	✓	✓	✓	✓	✓	✓	<b>✓</b>
				1: Active								
42E8	ushort	1	-	Password	1	<b>✓</b>	✓	✓	<b>~</b>	<b>✓</b>	✓	✓
42E9	ushort	1	_	LCD Contrast Setting:	1	✓	✓	✓	✓	✓	/	✓
				0 15	-							
				LCD Backlight Setting:								
42EA	ushort	1	-	0: closed	1	✓	1	1	✓	✓	/	✓
				1: open								
				2: automatic								
				Language Setting:								
4350	de aut	١.		0: english	l .	✓	·	1	✓	✓	·	·
42EB	ushort	1	-	1: turkish	1	_	· ·	· ·	•	· ·	· ·	· ·
				2: german								
42EC	ushort	1		3: french	1	_	-	-	_	~	/	/
			-	PCT Charle Manually								
42ED	ushort	1	month	DST Start Month: 1-12	1	✓	✓	✓	✓	✓	✓	✓
				DST Start Week:								
				0: First								
				1: Second								
42EE	ushort	1	?	2: Third	1	✓	✓	✓	✓	✓	✓	✓
				3: Fourth								
				4: Last								
				DST Start Day:								
				0 : SUNDAY								
				1: MONDAY								
				2: TUESDAY							✓	
42EF	ushort	1	DAY	3: WEDNESDAY	1	✓	✓	✓	✓	✓		
											· ·	✓
											_	~
				4: THURDAY 5: FRIDAY							Ť	,
				5: FRIDAY							Ť	Ť
										,		
42F0	ushort	1	hour	5: FRIDAY 6: SATURDAY	1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>*</b>	<b>✓</b>	·	·
				5: FRIDAY 6: SATURDAY DST Start Hour:							·	<b>*</b>
	ushort	1	hour	S: FRIDAY 6: SATURDAY DST Start Hour: 0-23	1 1	· ·	· ·	✓ ✓	<b>*</b>	<b>✓</b>		
				S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month:							·	<b>*</b>
				5: FRIDAY 6: SATURDAY DST Start Hour: 0-23 DST End Month: 1-12							·	<b>*</b>
42F1	ushort	1	month	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0- First 1- Second	1	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	· ·	· ·
42F1				S: FRIDAY 6: SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0: First							·	<b>*</b>
42F1	ushort	1	month	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0- First 1- Second	1	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	· ·	· ·
42F1	ushort	1	month	S- FRIDAY 6: SATURDAY 0.57 Start Hour: 0-23 0.58 for Month: 1-12 0.57 END Week: 0: First 1: Second 2: Third	1	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	· ·	· ·
42F1	ushort	1	month	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0- First 1-Second 2: Third 3: Fourth 4: Last	1	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	· ·	· ·
42F1	ushort	1	month	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0- First 1- Second 2: Third 3: Fourth 4: Last DST END DAY: 0- SUNDAY	1	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	· ·	· ·
42F1	ushort	1	month	S- FRIDAY	1	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	· ·	· ·
42F1 42F2	ushort	1	month ?	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0- First 1-Second 2- Third 3- Fourth 4- Last DST END DAY: 0 - SUNDAY 1- MONDAY 2- TURSDAY	1	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	· ·	· ·
42F1 42F2	ushort	1	month	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 0-23 DST End Month: 1-12 DST END Week: 0: First 1: Second 3: Fourth 4: Last DST END DAY: 0: SUNDAY 1: MONDAY 2: TURSDAY 3: WEDNESDAY	1	✓ ✓	·	*	*	*	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
42F1 42F2	ushort	1	month ?	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0-First 1-Second 2-Third 3-Fourth 4-Last DST END DAY: 0-SUNDAY 1-MONDAY 2-TURSDAY 3-WEDNESDAY 3-WEDNESDAY 3-WEDNESDAY 4-WHUEDAY	1	✓ ✓	·	*	*	*	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
42F1 42F2	ushort	1	month ?	S- FRIDAY S- FATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0-First 1-12 Second 2-Third 3-Fourth 4-Last DST END DAY: 0-SUNDAY 1-MONDAY 2-TUESDAY 3-WEDNESDAY 4-THURDAY 5-FRIDAY	1	✓ ✓	·	*	*	*	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
42F1 42F2	ushort	1	month ?	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0- First 1- Second 2- Third 3- Fourth 4- Last DST END AY: 0- SUNDAY 1- MONDAY 2- TURSDAY 3- WEDNESDAY 3- WEDNESDAY 4- THURDAY 5- FRIDAY 5- FRIDAY 5- FRIDAY 5- SATURDAY	1	✓ ✓	·	*	*	*	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
42F1 42F2 42F3	ushort	1	nonth ?	S- FRIDAY S- FATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0-First 1-Second 2: Third 3: Fourth 4: Last DST END DAY: 0-S SUNDAY 1: MONDAY 2: TURSDAY 3: WEDNESDAY 4: THURDAY 5: FRIDAY 6: SATURDAY DST END DAY: 0-STRIDAY 1: MONDAY 1: MONDAY 2: TURSDAY 3: WEDNESDAY 4: THURDAY 5: FRIDAY 5: FRIDAY 5: FRIDAY 5: SATURDAY 6: SATURDA	1	✓ ✓	·	*	*	*	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
42F1 42F2 42F3	ushort	1	month ?	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0-First 1-Second 2-Third 3-Fourth 4-Last DST END AY: 0-SUNDAY 1-MONDAY 2-TUESDAY 3-WEDNESDAY 4-THURDAY 5-FRIDAY 5-FRIDAY 5-FRIDAY 5-SATURDAY DST END DAY: 0-SUNDAY 1-MONDAY 1-MOND	1	· ·	· ·	*	*	*	*	*
42F1 42F2 42F3	ushort	1 1 1	month ? DAY	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0-First 1-Second 2-Third 3-Fourth 4-Last DST END DAY: 0-SUNDAY 1-MONDAY 2-TUBSDAY 3-WEDNESDAY 3-WEDNESDAY 3-WEDNESDAY 5-FRIDAY 5-FRIDAY 5-SATURDAY DST END DAY: 0-SATURDAY 0-SATURDAY 5-FRIDAY 5-FRIDAY 5-FRIDAY 5-FRIDAY 6-SATURDAY DST END HOUR: 0-23 TARIFF Activate:	1 1 1	· ·	· ·	*	*	*	*	*
42F1 42F2 42F3	ushort	1	nonth ?	S- FRIDAY S- SATURDAY DST Start Hour: 0-23 DST End Month: 1-12 DST END Week: 0-First 1-Second 2-Third 3-Fourth 4-Last DST END AY: 0-SUNDAY 1-MONDAY 2-TUESDAY 3-WEDNESDAY 4-THURDAY 5-FRIDAY 5-FRIDAY 5-FRIDAY 5-SATURDAY DST END DAY: 0-SUNDAY 1-MONDAY 1-MOND	1	· ·	· ·	*	*	*	*	*

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

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
1770	ushort	1	DAY	DAY 1-31	1	<b>✓</b>	✓	✓	✓	✓	✓	✓
1771	ushort	1	month	MONTH 1-12	1	✓	✓	<b>✓</b>	<b>/</b>	<b>√</b>	<b>~</b>	✓
1772	ushort	1	Yıl	YEAR 2000-2199	1	<b>✓</b>	✓	✓	✓	<b>✓</b>	✓	✓
1773	ushort	1	hour	HOUR 0-23	1	✓	✓	✓	✓	✓	✓	✓
1774	ushort	1	MINUTE	MINUTES 0-59	1	· /	· /	· /	· /	V	· /	· /
1775	ushort	1	Second	SECONDS 0-59	1	<b>✓</b>	✓	✓	✓	<b>✓</b>	✓	✓
1776	ushort	1		O : SUNDAY 1: MONDAY 2: TUESDAY 3: WEDNESDAY 4: THURDAY 5: FRIDAY 6: SATURDAY	1	<b>*</b>	<b>*</b>	*	✓	<b>√</b>	*	<b>√</b>
1777	short	1	-	-24 +24		<b>/</b>	· ·	_	_	_	_	_
1778	ushort	1		0: DISABLE 1: EUROPE 2: AMERICA 3: MANUAL	1	<b>v</b>	<b>*</b>	·	<b>√</b>	<b>√</b>	4	<b>√</b>
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	~	*	*	<b>~</b>	*	*	~
177B	ushort	1	DAY	DST Start DAY: 0: SUNDAY 1: MONDAY 2: TUESDAY 3: WEDNESDAY 4: THURDAY 5: FRIDAY 6: SATURDAY	1	*	*	*	<b>√</b>	*	*	<b>~</b>
177C	ushort	1	hour	DST Start Hour: 0-23	1	<b>~</b>	✓	<b>✓</b>	✓	✓	<b>~</b>	✓
177D	ushort	1	month	DST End Month: 1-12	1	✓	✓	<b>~</b>	✓	<b>✓</b>	<b>~</b>	✓
177E	ushort	1	week	DST END Week: 0: First 1: Second 2: Third 3: Fourth 4: Last	1	~	<b>*</b>	*	<b>*</b>	*	*	<b>*</b>

177F	ushort	1	DAY	DST END DAY: 0 : SUNDAY 2 : TURDAY 2 : TURSDAY 4 : THURDAY 5 : FRIDAY 5 : FRIDAY 6 : SATURDAY	1	<b>~</b>	<b>~</b>	<b>*</b>	~	~	<b>~</b>	<b>~</b>
1780	ushort	1	hour	DST End Hour: 0-23	1	✓	✓	✓	✓	~	✓	✓
1781	ushort	1	-	DST_STATUS	1	<b>✓</b>	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓

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

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
55F0	ushort	1	Haur /Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					<b>*</b>	<b>*</b>	~
3310	usnore	_	110di/Williates	Tariff Number Settings :	Value /0 230							
										✓	✓	✓
55F1	ushort	1	-	0-8	1							
				Start Hour and Start Minutes Settings:	Hour Value: Register Value / 256 Minute Value: Register					✓	<b>√</b>	<b>~</b>
55F2	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
55F3	ushort	1	-	Tariff Number Settings : 0-8	1					<b>✓</b>	<b>*</b>	✓
				Start Hour and Start Minutes Settings:	Hour Value: Register Value / 256 Minute Value: Register					<b>√</b>	✓	~
55F4	ushort	1	Hour/Minutes	Hour * 256 + Minute	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					<b>*</b>	<b>*</b>	<b>~</b>
55F7	ushort	1		Tariff Number Settings : 0-8	1					~	<b>✓</b>	~
55F8	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					<b>*</b>	<b>*</b>	<b>*</b>
				Tariff Number Settings :						✓	✓	✓
55F9 55FA	ushort	1	- Hour/Minutes	0-8  Start Hour and Start Minutes Settings: Hour * 256 + Minute	1 Hour Value: Register Value / 256 Minute Value: Register Value % 256					<b>v</b>	<b>*</b>	~
55FB	ushort	1		Tariff Number Settings : 0-8	1					<b>✓</b>	<b>~</b>	<b>✓</b>
55FC	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					<b>√</b>	*	<b>*</b>
55FD	ushort	1	_	Tariff Number Settings :	1					✓	<b>~</b>	<b>✓</b>
55FE	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256					<b>~</b>	*	<b>~</b>
55FF	ushort	1	_	Tariff Number Settings : 0-8	1					<b>✓</b>	<b>✓</b>	<b>~</b>

		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	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
- IICA		counts			Hour Value: Register Value							
					/ 256					_	_	/
				Start Hour and Start Minutes Settings:	Minute Value: Register					· ·	· ·	~
2328	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
				Tariff Number Settings :								
										✓	✓	✓
2329	ushort	1	-	0-8	1							
					Hour Value: Register Value							
				Start Hour and Start Minutes Settings:	/ 256					✓	✓	✓
232A	ushort	1		Hour * 256 + Minute	Minute Value: Register Value % 256							
232A	usnort	1	Hour/Minutes	Tariff Number Settings :	value % 256							
232B	ushort	1		0-8	1					✓	✓	✓
LULU	donore	-			Hour Value: Register Value							
					/ 256					_	_	/
				Start Hour and Start Minutes Settings:	Minute Value: Register					~	· ·	~
232C	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
				Tariff Number Settings :						/	<b>✓</b>	1
232D	ushort	1	-	0-8	1					, i	·	·
					Hour Value: Register Value							
					/ 256					✓	·	✓
				Start Hour and Start Minutes Settings:	Minute Value: Register							
232E	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
232F	ushort	1		Tariff Number Settings : 0-8	1					✓	✓	✓
232F	usnort	1	-	0-8	Hour Value: Register Value							
					/ 256							
				Start Hour and Start Minutes Settings:	Minute Value: Register					~	✓	~
2330	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
				Tariff Number Settings :						1	/	1
2331	ushort	1	-	0-8	1					,	•	•
					Hour Value: Register Value							
					/ 256					✓	·	✓
				Start Hour and Start Minutes Settings:	Minute Value: Register							
2332	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
2222		1		Tariff Number Settings : 0-8	1					✓	✓	✓
2333	ushort	1	-	0-8	Hour Value: Register Value							
					/ 256							
				Start Hour and Start Minutes Settings:	Minute Value: Register					✓	✓	✓
2334	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
2335	ushort	1	-	0-8	1					✓	✓	✓
					Hour Value: Register Value							
			1		/ 256					_	_	/
			1	Start Hour and Start Minutes Settings:	Minute Value: Register					· ·	· ·	*
2336	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
				Tariff Number Settings :						/	/	1
2337	ushort	1	-	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	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
					Hour Value: Register Value							
				L	/ 256					✓	✓	✓
2710	ushort	1		Start Hour and Start Minutes Settings: Hour * 256 + Minute	Minute Value: Register Value % 256							
2/10	usnort	1	Hour/Minutes	Tariff Number Settings :	Value % 256							
				Tariff Number Sectings .						✓	/	✓
2711	ushort	1		0-8	1							
					Hour Value: Register Value							
				Start Hour and Start Minutes Settings:	/ 256					/	/	/
					Minute Value: Register							
2712	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
				Tariff Number Settings :						✓	✓	✓
2713	ushort	1		0-8	1 Hour Value: Register Value							
					/ 256							
				Start Hour and Start Minutes Settings:	Minute Value: Register					✓	✓	✓
2714	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
2724	donore		riodi/iviiiidee3	Tariff Number Settings :	Value 70 E 50							
2715	ushort	1		0-8	1					✓	✓	✓
					Hour Value: Register Value							
					/ 256					/	/	/
				Start Hour and Start Minutes Settings:	Minute Value: Register						•	
2716	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
2717	ushort	1		Tariff Number Settings : 0-8	1					✓	✓	✓
					Hour Value: Register Value							
					/ 256					/	/	/
				Start Hour and Start Minutes Settings:	Minute Value: Register						•	
2718	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
				Tariff Number Settings :						✓	✓	✓
2719	ushort	1	-	0-8	1 Hour Value: Register Value							
					/ 256							
				Start Hour and Start Minutes Settings:	Minute Value: Register					✓	✓	<b>✓</b>
271A	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
		_		Tariff Number Settings :						/	1	1
271B	ushort	1	-	0-8	1					· ·	•	· ·
					Hour Value: Register Value							
					/ 256					/	/	/
				Start Hour and Start Minutes Settings:	Minute Value: Register							
271C	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
271D	ushort	1	-	0-8	1					✓	✓	✓
					Hour Value: Register Value							
				L	/ 256					✓	✓	✓
				Start Hour and Start Minutes Settings:	Minute Value: Register							
271E	ushort	1	Hour/Minutes	Hour * 256 + Minute	Value % 256							
271F	ushort	1		Tariff Number Settings : 0-8	1					✓	✓	✓

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

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
4E20	ushort	1		Alarm Output Number : 0 - 3	1	<b>~</b>	<b>√</b>	<b>✓</b>	✓	<b>~</b>	<b>√</b>	·
4E21	ushort	1		Alarmia on lower threshold cause:  00000: Alarm 5000: VNIA; 00013: VINI + VINI 00011: VNIA; 000012: VNIA; 000013: VINI + VINI 00014: VNIA; 000012: VNIA; 000015: VNIA + VINI 00014: VNIA; 000012: VNIA; 000015: VNIA 00017: VNIA; 00002: VNIA; 000015: VNIA 000021: VNIA; 000022: VNIA; 000021: VNIA 000021: VNIA; 000022: VNIA; 000021: VNIA; 000036: VNIA 000031: ILI, 000022: INIA; 000032: INIA; 000036: INIA; 00003	1	•	•	*	<b>~</b>	*	•	•
4E22	int	2	Depends on parameter.	Alarm 1 on lower threshold min value	Depends on parameter	✓	✓	✓	✓	✓	✓	✓
4E24	ushort	1		Alarmia on upper threshold cause:  0.0000: Alarm 50. 0.0001: VIN12, 0.00013: VIN14 VIN12 0.00014: VIN13, 0.00015: VIN14 VIN13, 0.00016: VIN12 VIN13 0.00014: VIN13, 0.00015: VIN14 VIN13, 0.00016: VIN14 0.00014: VIN13, 0.00025: VIN14 VIN13, 0.00016: VIN14 0.00012: VIL1, 0.00022: VIL12, 0.00023: VIL14 VIL12, 0.00024: VIL13 0.00026: VIL14 VIL13, 0.00027: VIL12 VIL13, 0.00027: VIL14 VIL13 0.00036: IL12 + IL13, 0.00037: IL14 IL12 + IL13 0.00036: IL12 + IL13, 0.00037: IL14 IL12 + IL13 0.00036: IL12 + IL13, 0.00037: IL14 IL12 + IL13 0.00036: IL14 0.00036: P14 P2, 0.00036: P3, 0.00035: P1 + P3 0.00036: P2 + P3, 0.00057: P1 + P2 + P3, 0.00036: P4 0.00036: P3, 0.00057: P1 + P2 + P3, 0.00036: P4 0.00036: P3, 0.00057: P1 + P2 + P3, 0.00036: P4 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P4 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P4 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P1 + P3 0.00036: P3, 0.00037: P1 + P2 + P3, 0.00036: P1 + P3 0.00036: P1 + P3, 0.00036: P1 + P3, 0.00136: P1 + P2 Demand, 0.00137: P1 + P2 + P3 Demand, 0.00138: P1 Demand, 0.00138: P2 Demand, 0.00138: P1 Demand, 0.00	1	,	,	,		,	,	,
4E25	int	2	Depends on parameter	0x0140: PSUM Demand Imp Alarm 1 on upper threshold max. value	Depends on parameter	<b>✓</b>	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓
4E27	uint	2	S	Alarm 1 Duration	1	<b>√</b>	<b>√</b>	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<i>'</i>
						✓ ✓	✓ ✓	✓ ✓	<u> </u>	✓ ✓	✓ ✓	✓ ✓
						✓	<b>✓</b>	✓	✓	<b>~</b>	<b>~</b>	✓

Same parameters continue for Alarm 2, 3 and 4.

				Mario Octobra Nicolano	1	1	1					
4E3B	ushort	1	-	Alarm Output Number : 0 - 3	1	✓	✓	✓	✓	✓	✓	✓
4E3C	ushort	1		Alama on lower threshold cause:	1	~	,	,	,	~	,	*
4E3D	int	2	Depends on parameter	Alarm 4 on lower threshold min value	Depends on parameter	<b>√</b>	<b>✓</b>	✓	✓	<b>√</b>	✓	<b>✓</b>
4E3F	ushort	1		Alarmad on upper threshold cause:  0.0000: Alarm Vo. 0.0011: VIN1, 0.0012: VIN1, 0.0013: VIN1 + VIN2 0.00014: VIN3, 0.0012: VIN1, 0.00105: VIN1 + VIN2 0.0014: VIN3, 0.00015: VIN1 + VIN3, 0.00016: VIN2 + VIN3 0.0017: VIN1 + VIN2 + VIN3, 0.00016: VIN2 + VIN3 0.00011: VIN1, 0.0002: VIN1, 0.00018: VIN1 + VIN1, 0.0002: VIN1 + VIN1, 0.0002: VIN1 + VIN1, 0.0002: VIN1 + VIN1, 0.0002: VIN1 + VIN1, 0.0003: V	1	*	*	Ý	Ý	·	•	*
				0x0137: P1 + P2 + P3 Demand, 0x0138: P4 Demand 0x0140: PSIIM Demand Imn								
4E40	int	2	Depends on parameter.	0x0138: P4 Demand	Depends on parameter	·	·	<b>*</b>	<b>*</b>	<b>✓</b>	<b>*</b>	<b>√</b>

		EVENT LOG RECORD
Supported Functions	Start Address	Register Counts
Read holding registers	8016	19

Address Hex		Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
1F50	uint	2	Unix Time	Start Time	1	~	<b>√</b>	<b>~</b>	~	·	<b>✓</b>	✓
1F52	uint	2	Unix Time	End Time	1	<b>✓</b>	✓	<b>~</b>	<b>√</b>	<b>✓</b>	<b>~</b>	✓
1F54	uint	2	Second	Duration	1	✓	✓	✓	✓	✓	<b>✓</b>	✓
1F56	ushort	1	?	Cycle	?	<b>/</b>	✓	~	✓	✓	✓	✓
1F57	ushort	1	-	Type	1	~	<b>√</b>	~	~	<b>✓</b>	<b>✓</b>	✓
1F58	ushort	1	-	Source	1	<b>✓</b>	✓	<b>~</b>	<b>√</b>	<b>✓</b>	<b>~</b>	✓
1F59	ushort	1	-	Param	1	✓	✓	✓	✓	✓	✓	✓
1F5A	int	2	Depends on parameter	High	Depends on parameter	<b>✓</b>	✓	<b>✓</b>	✓	✓	~	✓
1F5C	int	2	Depends on parameter	Low	Depends on parameter	<b>✓</b>	✓	~	✓	✓	✓	✓
1F5E	int	2	Depends on parameter	High Value	Depends on parameter	✓	✓	✓	✓	<b>✓</b>	<b>~</b>	✓
1F60	int	2	Depends on parameter	Low Value	Depends on parameter	✓	✓	✓	✓	✓	~	✓
1F62	ushort	1	-	Index	1	<b>√</b>	<b>√</b>	✓	✓	<b>√</b>	✓	✓

Supported Functions Start Address Register Counts
Write holding registers 8000 2

Address	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
				Record Index:		✓	<b>~</b>	✓	~	<b>~</b>	·	✓
1F40	short	1	-	-1 : Next Record	-	<	<b>~</b>	✓	~	<b>✓</b>	✓	~
				1-500: Record Index		<b>✓</b>	<b>~</b>	✓	<b>✓</b>	✓	<b>√</b>	✓

Address	Format	Word	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
Hex		Counts										
36B0	ushort	1	-	Reset Action Code:  00:1: MAX  00:2: MIN  00:0: DEFENCY  00:0: DEF	-	<b>√</b>	<b>,</b>	<b>*</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>~</b>

		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	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
5208	ushort	1	-	Profile Records Enable: 0: Disable 1: Enable	1				<b>*</b>	<	*	<b>√</b>
5209	ushort	1	-	Profile Synchronizing: 0: Disable 1: Enable	1				<b>*</b>	<	*	<b>√</b>

				•						
				Profile Records Record Time:						
				0: 1 Minute						
				1: 5 Minutes						
520A	ushort	1	Minutes	2: 10 Minutes	1		✓	/		/
32071	usilore	-	wiiilutes	3: 15 Minutes	-			-		
				4: 20 Minutes						
				5: 30 Minutes						
				6: 60 Minutes						
520B	ushort	1	-	Current Records Enable:	1		✓	~	<b>✓</b>	<b>✓</b>
				Current Synchronizing:						
520C	ushort	1	-	0: Disable	1		✓	✓	✓	✓
				1: Enable						
				Current Records Record Time:						
				0: 1 Minute						
				1: 5 Minutes						
				2: 10 Minutes			✓	/	✓	/
520D	ushort	1	Minutes	3: 15 Minutes	1		~	~	~	~
				4: 20 Minutes						
				5: 30 Minutes						
				6: 60 Minutes						
				Voltage Records Enable:						
520E	ushort	1	-	0: Disable	1		✓	✓	✓	✓
1			1	1: Enable	-					
				Voltage Synchronizing:						
520F	ushort	1	_	0: Disable	1		✓	/		
3201	usilore	-		1: Enable	-			-		
				Voltage Records Record Time:						
				0: 1 Minute						
				1: 5 Minutes						
				2: 10 Minutes						
5210	ushort	1	Minutes	3: 15 Minutes	1		✓	✓	✓	✓
				4: 20 Minutes						
				4: 20 Minutes 5: 30 Minutes						
				6: 60 Minutes						
				Power Records Enable:						
5211	ushort	1		0: Disable	1			/	✓	✓
3211	usiloit	1	-	1: Enable	1		•	•	•	•
				1: Enable Power Synchronizing:						
5212	ushort	1		o: Disable	1			/	✓	✓
3212	usnort	1		1: Enable	1		•	•	•	•
				1: Enable Power Records Record Time:						
				0: 1 Minute						
				1: 5 Minutes						
5213	ushort	1	Minutes	2: 10 Minutes	1		✓	✓	✓	✓
				3: 15 Minutes						
				4: 20 Minutes						
				5: 30 Minutes						
				6: 60 Minutes						
I	1		1	THD Records Enable:			✓	,		,
5214	ushort	1	-	0: Disable	1		~	✓	~	✓
				1: Enable						
				THD Synchronizing:						
5215	ushort	1	-	0: Disable	1		✓	✓	✓	✓
				1: Enable						
1			1	THD Records Record Time:						
1			1	0: 1 Minute						
1			1	1: 5 Minutes						
5216	ushort	1	Minutes	2: 10 Minutes	1		✓	/		/
5216	usilort	1	iviiiiutes	3: 15 Minutes	1		*	•		,
1			1	4: 20 Minutes						
1			1	5: 30 Minutes						
1			1	6: 60 Minutes						
			•	-		 				

		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	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
52D0	uint	2	-	Profile Records Index Register	1				✓	<b>✓</b>	<b>√</b>	<b>√</b>
52D2	uint	2	-	Voltage Records Index Regiter	1				<	~	<b>~</b>	<b>√</b>
52D4	uint	2	-	Current Records Index Register	1				<	~	✓	✓
52D6	uint	2	-	Power Records Index Register	1				~	^	✓	✓
52D8	uint	2	-	THD Records Index Regsiter	1				^	^	✓	✓

		Profile Records
Supported Functions	Start Address	Register Counts
Read holding registers	23000	28

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
59D8	uint	2	Unix Time	Record End Time	1				~	~	✓	✓
59DA	uint	2	Unix Time	Record Start Time	1				~	~	✓	✓
59DC	uint	2	Wh	Consumed Active Energy	1				~	~	✓	✓
59DE	uint	2	VARh	Q1 Reactive Energy	1				<	~	✓	✓
59E0	uint	2	VARh	Q4 Reactive Energy	1				<b>~</b>	·	<b>~</b>	✓
59E2	uint	2	VAh	Consumed Apperant Energy	1				~	~	✓	✓
59E4	uint	2	Wh	Delivered Active Energy	1				^	~	✓	✓
59E6	uint	2	VARh	Q2 Reactive Energy	1				<b>~</b>	·	<b>~</b>	✓
59E8	uint	2	VARh	Q3 Reactive Energy	1				<b>~</b>	·	<b>~</b>	✓
59EA	uint	2	VAh	Delivered Apperant Energy	1				~	~	✓	✓
59EC	uint	2	Wh	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					✓	<b>✓</b>	✓
59F1	ushort	1		Pulse Counter 4	1					~	·	✓
59F2	uint	2	-	Record Index	1				<b>~</b>	✓	✓	✓

		Current Records
Supported Functions	Start Address	Register Counts
Read holding registers	24000	30

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
5DC0	uint	2	Unix Time	Record End Time	1				_	_	_	·
5DC2	uint	2	Unix Time	Record Start Time	1				✓	✓	<b>✓</b>	<b>/</b>
5DC4	uint	2	A	Average Current IL1	0.001				✓	✓	·	1
5DC6	uint	2	Α	Average Current IL2	0.001				✓	✓	·	~
5DC8	uint	2	Α	Average Current IL3	0.001				✓	<b>✓</b>	<b>√</b>	·
5DCA	uint	2	Α	Average Current ILN	0.001				~	^	✓	✓
5DCC	uint	2	Α	Max Current IL1	0.001				<	~	<b>~</b>	✓
5DCE	uint	2	Α	Max Current IL2	0.001				~	~	<b>/</b>	<b>✓</b>
5DD0	uint	2	Α	Max Current IL3	0.001				~	^	✓	<b>✓</b>
5DD2	uint	2	Α	Max Current ILN	0.001				~	^	✓	<b>✓</b>
5DD4	uint	2	Α	Min Current IL1	0.001				~	~	<b>/</b>	<b>✓</b>
5DD6	uint	2	Α	Min Current IL2	0.001				<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>
5DD8	uint	2	Α	Min Current IL3	0.001				~	~	1	<b>/</b>
5DDA	uint	2	Α	Min Current ILN	0.001				~	^	✓	<b>✓</b>
5DDC	uint	2		Record Index	1				^	^	<b>✓</b>	✓

		Voltage Records
Supported Functions	Start Address	Register Counts
Read holding registers	25000	54

Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
61A8	uint	2	-	Record End Time	1				✓	✓	·	· ·
61AA	uint	2	Unix Time	Record Start Time	1				✓	✓	<b>✓</b>	✓
61AC	uint	2	V	Voltage L1-N	0.1				<b>√</b>	·	<b>√</b>	✓
61AE	uint	2	V	Voltage L2-N	0.1				<b>√</b>	·	<b>√</b>	✓
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				~	~	<b>~</b>	~
61B6	uint	2	V	Voltage L2-L3	0.1				<b>√</b>	·	<b>√</b>	✓
61B8	uint	2	V	Voltage L3-L1	0.1				✓	~	✓	✓
61BA	uint	2	Hz	Frequency	0.01				✓	~	✓	✓
61BC	uint	2	V	Max Voltage L1-N	0.1				<b>√</b>	<b>~</b>	<b>/</b>	✓
61BE	uint	2	V	Max Voltage L2-N	0.1				✓	~	✓	✓
61C0	uint	2	V	Max Voltage L3-N	0.1				✓	~	✓	✓
61C2	uint	2	V	Max Voltage L4-N	0.1				~	~	<b>~</b>	~
61C4	uint	2	V	Max Voltage L1-L2	0.1				<b>√</b>	<b>~</b>	<b>/</b>	✓
61C6	uint	2	V	Max Voltage L2-L3	0.1				✓	✓	✓	✓
61C8	uint	2	V	Max Voltage L3-L1	0.1				✓	~	✓	✓
61CA	uint	2	Hz	Frequency	0.01				~	~	<b>~</b>	~
61CC	uint	2	V	Min Voltage L1-N	0.1				<b>√</b>	<b>~</b>	<b>/</b>	✓
61CE	uint	2	V	Min Voltage L2-N	0.1				✓	✓	✓	✓
61D0	uint	2	V	Min Voltage L3-N	0.1				✓	~	✓	✓
61D2	uint	2	V	Min Voltage L4-N	0.1				<b>√</b>	<b>~</b>	<b>/</b>	✓
61D4	uint	2	V	Min Voltage L1-L2	0.1				✓	✓	✓	✓
61D6	uint	2	V	Min Voltage L2-L3	0.1				✓	~	✓	✓
61D8	uint	2	V	Min Voltage L3-L1	0.1				<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>
61DA	uint	2	Hz	Frequency	0.01				<b>√</b>	·	<b>√</b>	✓
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	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
6590	uint	2	Unix Time	Record End Time	1				·	·	·	<b>~</b>
6592	uint	2	Unix Time	Record Start Time	1				<b>~</b>	✓	<b>✓</b>	<b>✓</b>
6594	float	2	W	Total Import Active Power	1				<b>~</b>	✓	<b>✓</b>	<b>✓</b>
6596	float	2		Total Export Active Power	1				<b>✓</b>	✓	<b>✓</b>	<b>✓</b>
6598	float	2	VAR	Quadrant 1 average total reactive power	1				<b>~</b>	✓	<b>✓</b>	<b>✓</b>
659A	float	2	VAR	Quadrant 2 average total reactive power	1				<b>~</b>	<b>✓</b>	<b>✓</b>	✓
659C	float	2		Quadrant 3 average total ractive power	1				<b>~</b>	<b>✓</b>	<b>~</b>	✓
659E	float	2		Quadrant 4 average total reactive power	1				✓	✓	✓	✓
65A0	float	2	VA	Average total import apparent power	1				<b>~</b>	<b>✓</b>	<b>✓</b>	✓
65A2	float	2	W	Average total export apparent power	1				✓	<b>✓</b>	<b>✓</b>	✓
65A4	uint	2	-	Average total inductive import cosphi value	0.001				<b>~</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
65A6	uint	2	-	Average total capacitive import cosphi value	0.001				<b>~</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
65A8	uint	2	-	Average total inductive export cosphi value	0.001				✓	<b>✓</b>	<b>✓</b>	✓
65AA	uint	2	-	Average total capacitive export cosphi value	0.001				<b>~</b>	✓	<b>✓</b>	<b>✓</b>
65AC	uint	2	-	Average total PF	0.001				<b>~</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
65AE	float	2	W	Max. Total import active power	1				<b>~</b>	<b>✓</b>	<b>✓</b>	✓
65B0	float	2	W	Max. Total export active power	1				✓	<b>✓</b>	✓	✓
65B2	float	2	VAR	Max. Total Q1 Reactive Power	1				<b>~</b>	<b>✓</b>	<b>✓</b>	✓
65B4	float	2	VAR	Max. Total Q2 Reactive Power	1				<b>~</b>	<b>✓</b>	<b>✓</b>	✓
65B6	float	2	VAR	Max. Total Q3 Reactive Power	1				<b>~</b>	✓	<b>✓</b>	<b>✓</b>
65B8	float	2	VAR	Max. Total Q4 Reactive Power	1				<b>~</b>	✓	<b>✓</b>	<b>✓</b>
65BA	float	2	VA	Max. Total Import Apparent Power	1				<b>~</b>	<b>✓</b>	✓	✓
65BC	float	2	VA	Max. Total Export Apparent Power	1				<b>~</b>	<b>✓</b>	✓	✓
65BE	float	2	W	Min. Total Import Active Power	1				✓	<b>✓</b>	✓	✓
65C0	float	2	W	Min. Total Export Active Power	1				<b>~</b>	✓	<b>✓</b>	<b>✓</b>
65C2	float	2	VAR	Min. Total Q1 Reactive Power	1				<b>~</b>	<b>✓</b>	✓	✓
65C4	float	2	VAR	Min. Total Q2 Reactive Power	1				✓	<b>✓</b>	<b>√</b>	✓
65C6	float	2	VAR	Min. Total Q3 Reactive Power	1				<b>√</b>	<b>V</b>	<b>~</b>	<b>~</b>
65C8	float	2	VAR	Min. Total Q4 Reactive Power	1				<b>~</b>	✓	<b>✓</b>	<b>✓</b>
65CA	float	2	VA	Min. Total Import Apparent Power	1				✓	<b>✓</b>	<b>√</b>	✓
65CC	float	2	VA	Min. Total Export Apparent Power	1				<b>✓</b>	✓	<b>√</b>	<b>√</b>
65CE	uint	2	-	Record Index	1				<b>✓</b>	✓	<b>√</b>	<b>√</b>

		THD Records
Supported Functions	Start Address	Register Counts
Read holding registers	27000	60

Address		Word										
Hex	Format	Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
6978	uint	2	Unix Time	Record End Time	1					<b>✓</b>	<b>√</b>	<b>√</b>
697A	uint	2	Unix Time	Record Start Time	1						<b>~</b>	<b>✓</b>
697C	uint	2	%	Average Total Harmonic Distorsion VL1	0.1					<b>/</b>	<b>~</b>	<b>~</b>
697E	uint	2	%	Average Total Harmonic Distorsion VL2	0.1					<b>/</b>	<b>~</b>	<b>~</b>
6980	uint	2	%	Average Total Harmonic Distorsion VL3	0.1					✓	<b>√</b>	✓
6982	uint	2	%	Average Total Harmoic Distorsion VLL12	0.1					✓	<b>√</b>	✓
6984	uint	2	%	Average Total Harmoic Distorsion VLL23	0.1					✓	<b>~</b>	<b>~</b>
6986	uint	2	%	Average Total Harmoic Distorsion VLL31	0.1					<b>/</b>	<b>~</b>	<b>/</b>
6988	uint	2	%	Average Total Harmonic Distorsion IL1	0.1					✓	<b>√</b>	✓
698A	uint	2	%	Average Total Harmonic Distorsion IL2	0.1					✓	<b>√</b>	✓
698C	uint	2	%	Average Total Harmonic Distorsion IL3	0.1					✓	<b>~</b>	·
698E	uint	2	%	Max Total Harmonic Distorsion VL1	0.1					✓	✓	<b>√</b>
6990	uint	2	%	Max Total Harmonic Distorsion VL2	0.1					<b>~</b>	✓	✓
6992	uint	2	%	Max Total Harmonic Distorsion VL3	0.1					<b>✓</b>	<b>✓</b>	<b>✓</b>
6994	uint	2	%	Max Total Harmoic Distorsion VLL12	0.1					<b>~</b>	<b>~</b>	<b>~</b>
6996	uint	2	%	Max Total Harmoic Distorsion VLL23	0.1					<b>✓</b>	<b>✓</b>	✓
6998	uint	2	%	Max otal Harmoic Distorsion VLL31	0.1					<b>✓</b>	<b>✓</b>	✓
699A	uint	2	%	Max Total Harmonic Distorsion IL1	0.1					<b>✓</b>	✓	✓
699C	uint	2	%	Max Total Harmonic Distorsion IL2	0.1					✓	<b>✓</b>	<b>~</b>
699E	uint	2	%	Max Total Harmonic Distorsion IL3	0.1					<b>✓</b>	<b>✓</b>	✓
69A0	uint	2	%	Min Total Harmonic Distorsion VL1	0.1					<b>✓</b>	✓	✓
69A2	uint	2	%	Min Total Harmonic Distorsion VL2	0.1					✓	<b>✓</b>	<b>~</b>
69A4	uint	2	%	Min Total Harmonic Distorsion VL3	0.1					✓	<b>✓</b>	<b>~</b>
69A6	uint	2	%	Min Total Harmoic Distorsion VLL12	0.1					✓	<b>√</b>	✓
69A8	uint	2	%	Min Total Harmoic Distorsion VLL23	0.1					✓	<b>√</b>	✓
69AA	uint	2	%	Min Total Harmoic Distorsion VLL31	0.1					<b>✓</b>	1	<b>~</b>
69AC	uint	2	%	Min Total Harmonic Distorsion IL1	0.1					✓	<b>√</b>	✓
69AE	uint	2	%	Min Total Harmonic Distorsion IL2	0.1					✓	<b>√</b>	✓
69B0	uint	2	%	Min Total Harmonic Distorsion IL3	0.1					<b>✓</b>	1	<b>~</b>
69B2	uint	2		Record Index	1					<b>/</b>	<b>~</b>	<b>~</b>

		Device Identification
Supported Functions	Start Address	Register Counts
Read holding registers	60416	16

Address Hex		Word Counts	Unit	Remarks	Multiplier	MPR34S-11	MPR32S	MPR34S-20	MPR45S	MPR46S	MPR47S	MPR42-OGT
EC00	ushort	1	-	Device ID	1	<b>~</b>	✓	✓	✓	✓	·	·
EC01	ushort	1	-	Device ID && Versiyon No	1	<b>/</b>	<b>~</b>	✓	<b>✓</b>	✓	<b>✓</b>	✓
EC02	uint	2	-	Serial Number	1	<b>/</b>	<b>~</b>	✓	<b>✓</b>	<b>✓</b>	<b>√</b>	✓
EC04	uint	2	-	Software Version	1	~	<b>✓</b>	✓	^	^	✓	✓
EC06	uint	2	-	Hardware Version	1	~	<b>✓</b>	✓	^	^	✓	✓
EC08	uint	2	-	Modbus Table Version	1	<b>✓</b>	✓	✓	^	<	✓	✓
EC0A	uint	2	-	Boot loader version	1	<b>/</b>	<b>~</b>	✓	<b>✓</b>	<b>✓</b>	<b>√</b>	✓
EC0C	uint	2	Unix Time	Fabrication Date	1	~	<b>✓</b>	✓	^	^	✓	✓
EC0E	uint	2	Unix Time	Calibration Date	1	<b>✓</b>	<b>~</b>	✓	✓	<b>✓</b>	<b>~</b>	✓

MODEL	Available Features
MPR32	Alarm
MPR32S	Alarm, RS-485
MPR34-11	Alarm, THD I&V, Tariff, 1DI/1DO

MPR34S-11	Alarm, RS-485, THD I&V, Tariff, 1DI/1DO
MPR34-20	Alarm, THD I&V, Tariff, 2DI
MPR34S-20	Alarm, RS-485, THD I&V, Tariff, 2DI
MPR45	Work Hour, Event Logs
MPR45S	Work Hour, Alarm, Records, Event Logs
MPR46	Work Hour, Event Logs
MPR46S	Work Hour, Alarm, Records, Event Logs
MPR47S	Work Hour, Alarm, Records, Event Logs