## MPR 2X Register table

		Measurements	✓	is used for avilable for this version
·				is used for not available for this version
Supported Functions	Start Address	Register Counts	0	is used for optional with I/O module
Read holding registers	0	162	·	

MINITED   20   V/10	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22		MPR27S
COCK   URL   2	0000	uint	2	V/10	Voltage L1-N	0.1	- /	1	· /
Company   Comp									· ·
DODG							·	,	•
BOADA   Color   Colo							<b>1</b>	<b>/</b>	<b>/</b>
000C         unit 2         2         V/10         house 13         0.1         -/							·	<b>~</b>	/
March   2	000C	uint	2	V/10		0.1	✓	<b>√</b>	<b>✓</b>
March   Marc		uint			Current L1				✓
0.015   Units   2								· ·	✓
0015   1							<b>✓</b>	<b>✓</b>	✓
0015   Most   2								,	_
ORDIT   FIGHT   2									· ·
DOLD   Float   2									-
Mot   2   W								· ·	-
Total   2						1		/	/
Mot   2   W									
1004   2	0022						✓	✓	✓
Mode   Company   Mode   Company   Mode   M	0024		2	W		1	✓	<b>√</b>	<b>✓</b>
Mode   2	0026	float	2	W	$\sum$ Active Power +/- = $\sum$ P =P1+P2+P3	1	<b>✓</b>	<b>√</b>	<b>✓</b>
DOUZE   Float   2			2	var		1	✓	✓	✓
Total   2   var									✓
Total   2   var							<b>✓</b>	<b>✓</b>	✓
Total   Continue   C									
Mode   Company   Company									<b>✓</b>
1935   Float   2   wer									· ·
Signat   2									· ·
Map									
March   Marc							· ·	· /	· /
Mode							✓	<b>✓</b>	<b>✓</b>
Mode   Company   December   De	003E	float	2	VA		1	·	✓	✓
Mode   Float   2	0040	float	2	VA	Apparent power L4-N	1			
Mode   Company   Company									✓
0.004								· ·	✓
MAN				VA			_		· ·
OASE   Int   2				-					✓ ✓
OASE   Init   2									· /
0.005				-			•	•	•
DOSS				-			_	·	_
0054         int         2         -         CosPhi 12         0.001         V         V           0056         int         2         -         CosPhi 14         0.0001         V         V           0058         int         2         -         CosPhi 14         0.0001         V         V           0056         int         2         -         Rotation field; 1-right, 0-none, :1-left         1         V         V           005E         uint         2         %         Voltage Unbalance         0.1         V         V           0062         uint         2         Angle         1 Phase Voltage Angle         0.1         V         V           0064         uint         2         Angle         1 Phase Voltage Angle         0.1         V         V           0065         uint         2         Angle         1 Phase Voltage Angle         0.1         V         V           0066         uint         2         Angle         1 Phase Voltage Angle         0.1         V         V           0068         uint         2         Angle         1 Phase Voltage Angle         0.1         V         V           0066         uint				-					-
DOSS				-			·	/	·
0058         int         2         -         CosPhi L4         0.001         ✓           005C         int         2         -         SCos Phi = COS_L1 + COS_L2 + COS_L3         0.001         ✓         ✓           005E         int         2         -         Rotation field; 1=right, 0=none, -1=left         1         ✓         ✓           005E         uint         2         %         Current Unbalance         0.1         ✓         ✓           006E         uint         2         Angle         L1 Phase Voltage Angle         0.1         ✓         ✓           0064         uint         2         Angle         L3 Phase Voltage Angle         0.1         ✓         ✓           0065         uint         2         Angle         L3 Phase Voltage Angle         0.1         ✓         ✓           0066         uint         2         Angle         L4 Phase Voltage Angle         0.1         ✓         ✓           0066         uint         2         Angle         L4 Phase Voltage Angle         0.1         ✓         ✓           0066         uint         2         Angle         L4 Phase Current Angle         0.1         ✓         ✓           0066<	0056	int	2	-		0.001	<b>✓</b>	<b>✓</b>	✓
OSSE   uint   2	0058			-		0.001			
ODSE	005A	int	2	-	∑Cos Phi = COS_L1 + COS_L2 + COS_L3	0.001	<b>✓</b>	<b>✓</b>	✓
Octobe							✓		✓
0062									✓
10064   uint   2   Angle   12 Phase Voltage Angle   0.1							_		·
1									<b>√</b>
Unit   2   Angle   L1 Phase Voltage Angle   U.1   U.1   U.2   Angle   U.2   Angle   U.2   Angle   U.2   Angle   U.2   Angle   U.3   Phase Current Angle   U.3									· ·
OGA							·	•	
006E         uint         2         Angle         L2 Phase Current Angle         0.1         ✓         ✓           0070         uint         2         Angle         L3 Phase Current Angle         0.1         ✓         ✓           0070         uint         2         Angle         L4 Phase Current Angle         0.1         ✓         ✓           0072         float         2         Angle play table         1         1         ✓           0074         float         2         Analog Input 2         1         1         ✓           0075         float         2         Analog Input 3         1         1         ✓           0078         float         2         Analog Input 5         1         1         ✓           007C         float         2         Analog Input 5         1         1         ✓           007C         float         2         Analog Input 5         1         1         ✓           007E         float         2         Analog Input 3         1         1         ✓           008E         float         2         Analog Input 4         1         1         ✓           008E         float								/	_
OBSE   Unit   2   Angle   L3 Phase Current Angle   O.1								-	
0070									· /
0074         float         2         Analog Input 2         1           0076         float         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           0081         float         2         Analog Output 1         1           0082         float         2         - Analog Output 2         1           0084         float         2         - Analog Output 3         1           0085         float         2         - Analog Output 3         1           0088         float         2         - Analog Output 3         1           0088         float         2         - Analog Output 3         1           0088         float         2         - C         Analog Output 3         1           0088         float         2         - C         Temperature Input 2		float							
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           0084         float         2         - Analog Output 3         1           0086         float         2         - Analog Output 3         1           0088         float         2         - Analog Output 3         1           0088         float         2         - Analog Output 4         1           0088         float         2         - Canalog Output 3         1			2			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 Output 8         1           0082         float         2         - Analog Output 2         1           0084         float         2         - Analog Output 2         1           0086         float         2         - Analog Output 3         1           0088         float         2         - Analog Output 4         1           0088         float         2         - Caperature Input 1         1           0080         float         2         °C         Temperature Input 2         1           008E         float         2         °C         Temperature Input 3         1         1           0090         float         2         °C         Temperature Input 3         1         1           0091         float         2         °C         Temperature Input 3         1         1           0092         float         2         °C         Temperature Input 6 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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           0084         float         2         - Analog Output 2         1           0085         float         2         - Analog Output 3         1           0088         float         2         - Analog Output 4         1           0088         float         2         - C         Analog Output 3         1           0082         float         2         - C         Analog Output 3         1           0088         float         2         - C         Temperature Input 1         1           0086         float         2         C         Temperature Input 2         1           0096         float         2         C         Temperature Input 3         1           0099         float         2         C         Temperature Input 4         1           0099         float         2         -         Temperature Input 4         1									
OBSE   Float   2									
10082   float   2   -									
0084         float         2         -         Analog Output 2         1           0086         float         2         -         Analog Output 3         1           0088         float         2         -         Analog Output 4         1           008A         float         2         °C         Temperature Input 1         1           008C         float         2         °C         Temperature Input 2         1           008E         float         2         °C         Temperature Input 3         1           0090         float         2         °C         Temperature Input 3         1           0091         float         2         °C         Temperature Input 3         1           0092         float         2         °C         Temperature Input 4         1           0094         float         2         °         Temperature Input 6         1           0094         float         2         °         Temperature Input 6         1           0096         float         2         °         Temperature Input 7         1           0098         float         2         °         Temperature Input 7         1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
0086         float         2         -         Analog Output 3         1           0088         float         2         -         Analog Output 4         1           008A         float         2         °C         Temperature Input 1         1           008E         float         2         °C         Temperature Input 2         1           009B         float         2         °C         Temperature Input 3         1           0090         float         2         °C         Temperature Input 4         1           0092         float         2         -         Temperature Input 5         1           0094         float         2         -         Temperature Input 6         1           0095         float         2         -         Temperature Input 7         1           0098         float         2         -         Temperature Input 7         1           0098         float         2         -         Temperature Input 8         1           009A         uint         2         h/1000         Hour Meter (Non Resetable)         0.001         √         ✓									
0088         float         2         -         Analog Output 4         1         1         008         1         1         0         0         1         0         0         0         1         0         0         0         0         0         0         1         0 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>				-					
008A         float         2         °C         Temperature Input 1         1         1         0         0         0         0         1         0         0         0         0         0         0         0         0         0         0         1         0<				-					
008E         float         2         °C         Temperature Input 2         1           008E         float         2         °C         Temperature Input 3         1           0090         float         2         °C         Temperature Input 4         1           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         uint         2         h/1000         Hour Meter (Non Resetable)         0.001         ✓           009C         uint         2         h/1000         Working Hour Counter         0.001         ✓				°C		1			
008E         float         2         °C         Temperature Input 3         1           0090         float         2         °C         Temperature Input 4         1           0092         float         2         -         Temperature Input 5         1           0094         float         2         -         Temperature Input 6         1           0096         float         2         -         Temperature Input 7         1           0098         vint         2         -         Temperature Input 8         1           009A         vint         2         h/1000         How Meter (Non Resetable)         0.001         ✓         ✓           009C         vint         2         h/1000         Working Hour Counter         0.001         ✓         ✓				°C					
0090         float         2         °C         Temperature Input 4         1           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         uint         2         h/1000         Hour Meter (Non Resetable)         0.001         ✓           009C         uint         2         h/1000         Working Hour Counter         0.001         ✓			2	°C		1			
0094         float         2         -         Temperature Input 6         1           0095         float         2         -         Temperature Input 7         1           0098         float         2         -         Temperature Input 8         1           009A         uint         2         h/1000         Hour Meter (Non Resetable)         0.001         ✓           009C         uint         2         h/1000         Working Hour Counter         0.001         ✓	0090	float	2	°C		1			
0094         float         2         -         Temperature Input 6         1         -         1         -         1         -         -         1         - </td <td>0092</td> <td>float</td> <td>2</td> <td>-</td> <td></td> <td>1</td> <td></td> <td></td> <td></td>	0092	float	2	-		1			
0096         float         2         -         Temperature Input 7         1           0098         float         2         -         Temperature Input 8         1           009A         uint         2         h/1000         How Meter (Non Resetable)         0.001         ✓         ✓           009C         uint         2         h/1000         Working Hour Counter         0.001         ✓         ✓									
0098         float         2         -         Temperature Input 8         1           009A         uint         2         h/1000         Hour Meter (Non Resetable)         0.001         ✓           009C         uint         2         h/1000         Working Hour Counter         0.001         ✓	0096	float	2	-		1			
009C uint 2 h/1000 Working Hour Counter 0.001 ✓ ✓	0098		2	-		1			
009C uint 2 h/1000 Working Hour Counter 0.001 🗸 🗸	009A		2	h/1000	Hour Meter ( Non Resetable )	0.001	<b>_</b>	<b>V</b>	✓
	009C	uint	2			0.001	✓	<b>~</b>	✓
	009F	uint	2	-			<b>✓</b>	<b>~</b>	✓

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

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
200	00C8	Ulong		Wh	Control Add a Francis	1	_		
		,			Consumed Active Energy L1	1			
204	00CC	Ulong	4	Wh	Consumed Active Energy L2	1	✓	✓	✓
208	00D0	Ulong	4	Wh	Consumed Active Energy L3	1	✓	<b>~</b>	✓
212	00D4	Ulong	4	Wh	Consumed Active Energy L4	1			
216	00D8	Ulong	4	Wh	Total Consumed Energy L1L3	1	✓	<b>✓</b>	<b>✓</b>
220	00DC	Ulong	4	Wh	Delivered Active Energy L1	1	✓	✓	✓
224	00E0	Ulong	4	Wh	Delivered Active Energy L2	1	<b>✓</b>	✓	<b>✓</b>
228	00E4	Ulong	4	Wh	Delivered Active Energy L3	1	<b>✓</b>	<b>✓</b>	<b>✓</b>
232	00E8	Ulong	4	Wh	Delivered Active Energy L4	1			
236	00EC	Ulong	4	Wh	Total Delivered Energy L1L3	1	<b>~</b>	✓	<b>✓</b>
240	00F0	Ulong	4	VAh	Consumed Apparent energy L1	1	✓	<b>✓</b>	<b>✓</b>
244	00F4	Ulong	4	VAh	Consumed Apparent energy L2	1	<b>~</b>	✓	<b>✓</b>
248	00F8	Ulong	4	VAh	Consumed Apparent energy L3	1	<b>✓</b>	✓	<b>✓</b>
252	00FC	Ulong	4	VAh	Consumed Apparent energy L4	1			
256	0100	Ulong	4	VAh	Total Consumed Apparent Energy L1L3	1	<b>✓</b>	<b>~</b>	<b>✓</b>

260	0104	Ulong	4	VAh	Delivered Apparent Energy L1	1	✓	✓	<b>✓</b>
264	0108	Ulong	4	VAh	Delivered Apparent Energy L2	1	✓	<b>✓</b>	<b>✓</b>
268	010C	Ulong	4	VAh	Delivered Apparent Energy L3	1	✓	<b>✓</b>	✓
272	0110	Ulong	4	VAh	Delivered Apparent Energy L4	1			
276	0114	Ulong	4	VAh	Total Delivered Apparent energy L1L3	1	✓	<b>✓</b>	✓
280	0118	Ulong	4	Varh	Quadrant 1 Reactive Energy L1	1	✓	<b>~</b>	✓
284	011C	Ulong	4	Varh	Quadrant 1 Reactive Energy L2	1	✓	✓	✓
288	0120	Ulong	4	Varh	Quadrant 1 Reactive Energy L3	1	<b>~</b>	<b>~</b>	✓
292	0124	Ulong	4	Varh	Quadrant 1 Reactive Energy L4	1			
296	0128	Ulong	4	Varh	Quadrant 1 total reactive Energy	1	✓	<b>~</b>	✓
300	012C	Ulong	4	Varh	Quadrant 2 Reactive Energy L1	1	<b>~</b>	<b>~</b>	✓
304	0130	Ulong	4	Varh	Quadrant 2 Reactive Energy L2	1	✓	<b>~</b>	✓
308	0134	Ulong	4	Varh	Quadrant 2 Reactive Energy L3	1	✓	<b>✓</b>	✓
312	0138	Ulong	4	Varh	Quadrant 2 Reactive Energy L4	1			
316	013C	Ulong	4	Varh	Quadrant 2 total reactive Energy	1	✓	<b>~</b>	✓
320	0140	Ulong	4	Varh	Quadrant 3 Reactive Energy L1	1	✓	<b>✓</b>	✓
324	0144	Ulong	4	Varh	Quadrant 3 Reactive Energy L2	1	✓	<b>~</b>	✓
328	0148	Ulong	4	Varh	Quadrant 3 Reactive Energy L3	1	✓	✓	✓
332	014C	Ulong	4	Varh	Quadrant 3 Reactive Energy L4	1			
336	0150	Ulong	4	Varh	Quadrant 3 total reactive Energy	1	✓	<b>~</b>	✓
340	0154	Ulong	4	Varh	Quadrant 4 Reactive Energy L1	1	✓	<b>~</b>	✓
344	0158	Ulong	4	Varh	Quadrant 4 Reactive Energy L2	1	✓	✓	1
348	015C	Ulong	4	Varh	Quadrant 4 Reactive Energy L3	1	✓	<b>~</b>	✓
352	0160	Ulong	4	Varh	Quadrant 4 Reactive Energy L4	1			
356	0164	Ulong	4	Varh	Quadrant 4 total reactive Energy	1	✓	✓	1
360	0168	uint	2	-	Number Of pulse Meter (Max 8)	1	✓	✓	<b>√</b>
362	016A	uint	2	-	Total pulse meter input 1	1	✓	<b>~</b>	✓
364	016C	uint	2	-	Total pulse meter input 2	1	✓	✓	1
366	016E	uint	2	-	Total pulse meter input 3	1			
368	0170	uint	2	-	Total pulse meter input 4	1			
370	0172	uint	2	-	Total pulse meter input 5	1			
372	0174	uint	2	-	Total pulse meter input 6	1			
374	0176	uint	2	-	Total pulse meter input 7	1			
376	0178	uint	2	-	Total pulse meter input 8	1			

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

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
1500	05DC	Ulong	4	Wh	Consumed Active Energy L1	1			
1504	05E0	Ulong	4	Wh	Consumed Active Energy L2	1			
1508	05E4	Ulong	4	Wh	Consumed Active Energy L3	1			
1512	05E8	Ulong	4	Wh	Consumed Active Energy L4	1			
1516	05EC	Ulong	4	Wh	Total Consumed Energy L1L3	1			
1520	05F0	Ulong	4	Wh	Delivered Active Energy L1	1			
1524	05F4	Ulong	4	Wh	Delivered Active Energy L2	1			
1528	05F8	Ulong	4	Wh	Delivered Active Energy L3	1			
1532	05FC	Ulong	4	Wh	Delivered Active Energy L4	1			
1536	0600	Ulong	4	Wh	Total Delivered Energy L1L3	1			
1540	0604	Ulong	4	VAh	Consumed Apparent energy L1	1			
1544	0608	Ulong	4	VAh	Consumed Apparent energy L2	1			
1548	060C	Ulong	4	VAh	Consumed Apparent energy L3	1			
1552	0610	Ulong	4	VAh	Consumed Apparent energy L4	1			
1556	0614	Ulong	4	VAh	Total Consumed Apparent Energy L1L3	1			
1560	0618	Ulong	4	VAh	Delivered Apparent Energy L1	1			
1564	061C	Ulong	4	VAh	Delivered Apparent Energy L2	1			
1568	0620	Ulong	4	VAh	Delivered Apparent Energy L3	1			
1572	0624	Ulong	4	VAh	Delivered Apparent Energy L4	1			
1576	0628	Ulong	4	VAh	Total Delivered Apparent energy L1L3	1			
1580	062C	Ulong	4	Varh	Quadrant 1 Reactive Energy L1	1			
1584	0630	Ulong	4	Varh	Quadrant 1 Reactive Energy L2	1			
1588	0634	Ulong	4	Varh	Quadrant 1 Reactive Energy L3	1			
1592	0638	Ulong	4	Varh	Quadrant 1 Reactive Energy L4	1			
1596	063C	Ulong	4	Varh	Quadrant 1 total reactive Energy	1			
1600	0640	Ulong	4	Varh	Quadrant 2 Reactive Energy L1	1			
1604	0644	Ulong	4	Varh	Quadrant 2 Reactive Energy L2	1			
1608	0648	Ulong	4	Varh	Quadrant 2 Reactive Energy L3	1			
1612	064C	Ulong	4	Varh	Quadrant 2 Reactive Energy L4	1			
1616	0650	Ulong	4	Varh	Quadrant 2 total reactive Energy	1			
1620	0654	Ulong	4	Varh	Quadrant 3 Reactive Energy L1	1			
1624	0658	Ulong	4	Varh	Quadrant 3 Reactive Energy L2	1			
1628	065C	Ulong	4	Varh	Quadrant 3 Reactive Energy L3	1			
1632	0660	Ulong	4	Varh	Quadrant 3 Reactive Energy L4	1			
1636	0664	Ulong	4	Varh	Quadrant 3 total reactive Energy	1			
1640	0668	Ulong	4	Varh	Quadrant 4 Reactive Energy L1	1			
1644	066C	Ulong	4	Varh	Quadrant 4 Reactive Energy L2	1			
1648	0670	Ulong	4	Varh	Quadrant 4 Reactive Energy L3	1			
1652	0674	Ulong	4	Varh	Quadrant 4 Reactive Energy L4	1			
1656	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	MPR25S-22	MPR26S-21	MPR27S-23
500	01F4	ushort	1	-	Number Of Tariff	1	<b>✓</b>	<b>√</b>	<b>√</b>
501	01F5	ushort	1	-	Tariff Number In Progress	1	1	<	✓
502	01F6	ulong	4	kWh	Positive Active Energies Tariff1	1	1	<	✓
506	01FA	ulong	4	kWh	Positive Active Energies Tariff2	1	<b>✓</b>	<b>✓</b>	✓
510	01FE	ulong	4	kWh	Positive Active Energies Tariff3	1	<b>✓</b>	<b>✓</b>	✓
514	0202	ulong	4	kWh	Positive Active Energies Tariff4	1	✓	<b>✓</b>	✓
518	0206	ulong	4	kWh	Positive Active Energies Tariff5	1	<b>✓</b>	<b>✓</b>	✓
522	020A	ulong	4	kWh	Positive Active Energies Tariff6	1	<b>✓</b>	<b>✓</b>	✓
526	020E	ulong	4	kWh	Positive Active Energies Tariff7	1	✓	<b>✓</b>	✓
530	0212	ulong	4	kWh	Positive Active Energies Tariff8	1	<b>✓</b>	✓	<b>✓</b>
534	0216	ulong	4	kWh	Generator Energies	1	✓	<b>✓</b>	✓
538	021A	ulong	4	kWh	Total tariff 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	MPR25S-22	MPR26S-21	MPR27S-23
800	0320	uint	2	V/10	L1 Phase Max Voltage	0.1	<b>✓</b>	✓	✓
802	0322	uint	2	Time	L1 Phase Max Voltage Time	Unix Time Stamp	<b>✓</b>	✓	<b>✓</b>
804	0324	uint	2	V/10	L2 Phase Max Voltage	0.1	✓	✓	✓
806	0326	uint	2	Time	L2 Phase Max Voltage Time	Unix Time Stamp	<b>✓</b>	✓	<b>✓</b>
808	0328	uint	2	V/10	L3 Phase Max Voltage	0.1	<b>✓</b>	<b>√</b>	<b>✓</b>
810	032A	uint	2	Time	L3 Phase Max Voltage Time	Unix Time Stamp	✓	<b>✓</b>	✓

10	812	032C	uint	2	V/10	LA Dhana May Valtana	0.1			
15   15   15   15   15   15   15   15						L4 Phase Max Voltage L4 Phase Max Voltage Time				
Section   Sect										
10										
Section								<b>V</b>		·
15   15   15   17   17   17   17   17				_						
10   10   10   10   10   10   10   10						·				
10   10   10   10   10   10   10   10										· /
10   14   15   17   16   18   17   18   18   18   18   18   18				_						
10   10   10   10   10   10   10   10				_						
10   10   10   10   10   10   10   10										
March   March   77   April   March   March   March   March   March   March   April						L4 Phase Max Current	0.001			
10   10   10   10   10   10   10   10	-							- /	-	./
March   1985					_					
10   10   10   10   10   10   10   10				2			1			
15   15   15   15   15   15   15   15				_			Unix Time Stamp			
10   150							1 Unix Time Stamp			
100   100								<b>✓</b>	<b>✓</b>	<b>√</b>
100   100								<b>✓</b>	✓	<b>√</b>
60							_			
See   See							1	<b>✓</b>	<b>✓</b>	<b>√</b>
10   10   10   10   10   10   10   10			uint			Max Total Import Active Power Time	Unix Time Stamp			
10   10   10   10   10   10   10   10										
10							1			
17	874	036A	uint	2	Time		Unix Time Stamp			
Section   Control   2						L1 Phase Max Reactive Power				
2007   100   2										
1							_	<b>✓</b>	✓	1
1985   2377   Foot   2   Virgle   14 Process May Receive Prover   1   Virgle   Vir				_		L3 Phase Max Reactive Power	1			
200   2017   First   2   Young   2   You				_					<b>V</b>	<b>√</b>
10   27   Four   2    Viv/10   Countered 1										
10   2		037C	float	2	Var/10	Quadrant 1 Max Reactive Power	1			
1985   1987   1987   12										
500   Column   Colu							_			
2006   Side							1			
10   138.5   Unit.   2				_			Unix Time Stamp			
Section   2   Vary10   Quadrant Total Mark Reactive Power   1   1   V   V   V   V   V   V   V   V							Unix Time Stamp			
10.00		038C		2			1			
15   15   15   15   15   15   15   15							Unix Time Stamp			
19.50   Sold   Float   2   VA/10   12 Prope Max Apparent Power   1   1   V   V   V   V   V   V   V   V							Unix Time Stamp			
100   1098   Figur   2   Val   10   Pales Max Apperent Power Time   1   Val   Val									·	<b>√</b>
2007   2018										
2015							_			
20.20				_				•	•	,
20			uint	2	Time	L4 Phase Max Apparent Power Time	Unix Time Stamp			
1	928									
1	930			2	VA/10	Max Total Import Apparent Power	1			
1988   0.00		03A2	uint	2	VA/10 Time	Max Total Import Apparent Power Max Total Import Apparent Power Time	1	<b>✓</b>	<b>✓</b>	<b>✓</b>
20	932 934	03A2 03A4 03A6	uint float uint	2 2 2	VA/10 Time VA/10 Time	Max Total Import Apparent Power Max Total Import Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Time	1 Unix Time Stamp 1	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
1	932 934 936	03A2 03A4 03A6 03A8	uint float uint float	2 2 2 2 2	VA/10 Time VA/10 Time VA/10	Max Total Import Apparent Power Max Total Import Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Apparent Power	1 Unix Time Stamp 1 Unix Time Stamp 1	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
SECTION   Common	932 934 936 938	03A2 03A4 03A6 03A8 03AA	uint float uint float uint	2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Max Total Apparent Power Max Total Apparent Power	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp	\frac{1}{\sqrt{1}}	· · · · · · · · · · · · · · · · · · ·	
948   948	932 934 936 938 940 942	03A2 03A4 03A6 03A8 03AA 03AC	uint float uint float uint uint uint uint	2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time	Max Total Import Apparent Power Max Total Import Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Time	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	* * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·	\frac{}{}
Section   Sect	932 934 936 938 940 942 944	03A2 03A4 03A6 03A8 03AA 03AC 03AE	uint float uint float uint uint uint uint uint uint	2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time %	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Time Max Total Apparent Power Time Max Total Apparent Power Time Max System Frequency Max System Frequency L1 Phase Max. Voltage THD	Unix Time Stamp  1  Unix Time Stamp  1  Unix Time Stamp  0.1  Unix Time Stamp  0.1	* * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
1954   0.386   uint   2   Time   1.2 Phase Max Voltage THD Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 936 938 940 942 944 946	03A2 03A4 03A6 03A8 03AA 03AC 03AC 03AE 03B0	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time F/10 Time %	Max Total Import Apparent Power  Max Total Export Apparent Power Time  Max Total Export Apparent Power  Max Total Export Apparent Power Time  Max Total Apparent Power  Max Total Apparent Power Time  Max Total Apparent Power Time  Max System Frequency  Max System Frequency Time  L1 Phase Max, Voltage THD  L1 Phase Max, Voltage THD	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp 0.1 Unix Time Stamp	\( \frac{1}{2} \)	\( \frac{1}{4} \)	\( \frac{1}{2} \)
956   936C   uint   2   %   4 Phase Max Voltage THD   0.1	932 934 936 938 940 942 944 946 948 950	03A2 03A4 03A6 03A8 03AA 03AC 03AC 03B0 03B2 03B4	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time % Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Apparent Power Time Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Time L1 Phase Max. Voltage THD L2 Phase Max. Voltage THD L2 Phase Max Voltage THD L3 Phase Max Voltage THD L3 Phase Max Voltage THD L4 Phase Max Voltage THD L5 Phase Max Voltage THD L6 Phase Max Voltage THD L7 Phase Max Voltage THD L8 Phase Max Voltage THD	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp 0.1 Unix Time Stamp 0.1 Unix Time Stamp Unix Time Stamp Unix Time Stamp Unix Time Stamp	\( \frac{1}{2} \)	\( \frac{1}{2} \)	\frac{\sqrt{\chi}}{\sqrt{\chi}}
958   938E   uint   2   Time   4   Phase Max Voltage THD Time   Unix Time Stamp	932 934 936 938 940 942 944 946 948 950 952	03A2 03A4 03A6 03A8 03AA 03AC 03AE 03B0 03B2 03B4 03B6 03B8	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time % Time %	Max Total Import Apparent Power  Max Total Export Apparent Power Time  Max Total Export Apparent Power  Max Total Export Apparent Power  Max Total Apparent Power  Max Total Apparent Power  Max Total Apparent Power Time  Max System Frequency  Max System Frequency Time  L1 Phase Max. Voltage THD  L1 Phase Max. Voltage THD  L2 Phase Max Voltage THD  L2 Phase Max. Voltage THD  L3 Phase Max. Voltage THD  L3 Phase Max. Voltage THD Time  L3 Phase Max. Voltage THD Time  L3 Phase Max. Voltage THD Time	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	/ / / / / / / / / / / / / / / / / / /
	932 934 936 938 940 942 944 946 948 950 952 954	03A2 03A4 03A6 03A8 03AA 03AC 03AE 03B0 03B2 03B4 03B6 03B8	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time % Time % Time %	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Ime L1 Phase Max. Voltage THD L2 Phase Max. Voltage THD Time L2 Phase Max. Voltage THD Time L3 Phase Max. Voltage THD Time	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp 1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	/ / / / / / / / / / / / / / / / / / /
954 03.64 uint 2 % 12.13 Max Voltage THD	932 934 936 938 940 942 944 946 948 950 952 954 956 958	03A2 03A4 03A6 03A8 03AA 03AC 03AE 03B0 03B2 03B4 03B6 03B8 03BA 03BC	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time % Time % Time % Time % Time	Max Total Import Apparent Power  Max Total Export Apparent Power Time  Max Total Export Apparent Power  Max Total Export Apparent Power Time  Max Total Apparent Power  Max Total Apparent Power Time  Max Total Apparent Power Time  Max System Frequency  Max System Frequency Time  Li Phase Max. Voltage THD	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	· · · · · · · · · · · · · · · · · · ·	/ / / / / / / / / / / / / / / / / / /	· · · · · · · · · · · · · · · · · · ·
966   03.05   uint   2	932 934 936 938 940 942 944 946 950 952 954 956 958 960	03A2 03A4 03A6 03A8 03AA 03AC 03AE 03B0 03B2 03B4 03B6 03B8 03BA 03BC	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time % Time % Time % Time %	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max System Frequency L1 Phase Max. Voltage THD L2 Phase Max. Voltage THD L2 Phase Max. Voltage THD Time L3 Phase Max. Voltage THD L3 Phase Max. Voltage THD L4 Phase Max. Voltage THD Time L1-L4 Max Voltage THD Time L1-L4 Max Voltage THD Time L1-L4 Max Voltage THD Time	1 Unix Time Stamp 1 Unix Time Stamp 0.1	/ / / / / / / / / / / / / / / / / / /	/ / / / / / / / / / / / / / / / / / /	V V V V V V V V V V V V V V V V V V V
970   03CA	932 934 936 938 940 942 944 946 950 952 954 956 958 960 962	03A2 03A4 03A6 03A8 03AA 03AC 03AE 03B0 03B2 03B4 03B6 03B8 03BA 03BC 03BC	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time %	Max Total Import Apparent Power  Max Total Import Apparent Power Time  Max Total Export Apparent Power Time  Max Total Export Apparent Power Time  Max Total Export Apparent Power Time  Max Total Apparent Power Time  Max System Frequency  Max System Frequency  Max System Frequency Time  L1 Phase Max. Voltage THD  L2 Phase Max. Voltage THD Time  L3 Phase Max. Voltage THD Time  L3 Phase Max. Voltage THD  L3 Phase Max. Voltage THD  L4 Phase Max. Voltage THD Time  L1-12 Max Voltage THD  L1-12 Max Voltage THD Time	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	/ / / / / / / / / / / / / / / / / / /	/ / / / / / / / / / / / / / / / / / /	· · · · · · · · · · · · · · · · · · ·
1	932 934 936 940 942 944 946 950 952 954 956 958 960 962	03A2 03A4 03A6 03A8 03AA 03AC 03B0 03B2 03B4 03B6 03B8 03BA 03BC 03BE 03CO 03CO	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time	Max Total Import Apparent Power Max Total Import Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Apparent Power Time Max System Frequency L1 Phase Max. Voltage THD L2 Phase Max. Voltage THD L2 Phase Max. Voltage THD Time L3 Phase Max. Voltage THD L3 Phase Max. Voltage THD L3 Phase Max. Voltage THD L4 Phase Max. Voltage THD L4 Phase Max. Voltage THD L4 Phase Max. Voltage THD L1-L2 Max Voltage THD Time L1-L2 Max Voltage THD Time L1-L2 Max Voltage THD Time L1-L3 Max Voltage THD Time L2-L3 Max Voltage THD L2-L3 Max Voltage THD Time L2-L3 Max Voltage THD Time	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	/ / / / / / / / / / / / / / / / / / /	/ / / / / / / / / / / / / / / / / / /	V V V V V V V V V V V V V V V V V V V
974   03CE   uint   2   Time   L1 Phase Max Current THD Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 936 938 940 942 944 946 950 952 954 956 962 964 966 968	03A2 03A4 03A6 03A8 03AA 03AC 03B0 03B2 03B4 03B6 03B8 03B8 03BC 03BC 03C0 03C2 03C2	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time %	Max Total Import Apparent Power  Max Total Import Apparent Power Time  Max Total Export Apparent Power  Max Total Export Apparent Power Time  Max Total Export Apparent Power Time  Max Total Apparent Power Time  Max System Frequency  Max System Frequency  Max System Frequency Time  L1 Phase Max. Voltage THD  L2 Phase Max. Voltage THD  L2 Phase Max Voltage THD Time  L3 Phase Max. Voltage THD  L3 Phase Max. Voltage THD  L4 Phase Max. Voltage THD Time	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
978   0302   uint   2   Time   12 Phase Max Current THD Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 936 938 940 942 944 946 950 952 954 956 962 964 966 968 970	03A2 03A4 03A6 03A6 03AA 03AC 03AE 03B0 03B2 03B4 03B6 03B8 03BA 03BC 03BC 03BC 03C2 03C2	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time %	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Important Power Time It Phase Max. Voltage THD It Phase Max. Voltage THD It Phase Max. Voltage THD Time It Phase Max. Voltage THD It Li-Li Max Voltage THD It Li Li Max Voltage THD It It Li	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	v v v v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	V V V V V V V V V V V V V V V V V V V
980   03D4   uint   2   %   13 Phase Max Current THD	932 934 936 938 940 942 944 950 952 954 956 962 964 966 968 970 972 974	03A2 03A4 03A6 03A8 03AA 03AC 03AC 03B2 03B4 03B6 03B8 03BB 03BC 03BC 03C 03C 03C 03C 03C 03C 03C	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time	Max Total Import Apparent Power Max Total Import Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Apparent Power Time Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Time L1 Phase Max. Voltage THD L1 Phase Max. Voltage THD L2 Phase Max. Voltage THD Time L3 Phase Max. Voltage THD Time L3 Phase Max. Voltage THD L4 Phase Max. Voltage THD Time L4 Phase Max. Voltage THD L4 Phase Max. Voltage THD Time L2-L3 Max Voltage THD Time L2-L3 Max Voltage THD Time L3-L3 Max Voltage THD Time L3-L1 Max Voltage THD Time L3-L1 Max Voltage THD Time L3-L1 Max Voltage THD L3-L1 Max Voltage THD Time	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	v v v v v v v v v v v v v v v v v v v	V V V V V V V V V V V V V V V V V V V
932   03DE   uint   2   Time   13 Phase Max Current THD Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 936 938 940 942 944 946 950 952 954 956 962 964 966 968 970 972 974 976	03A2 03A4 03A6 03A8 03AA 03AC 03B0 03B0 03B2 03B4 03B6 03B8 03BA 03BC 03C2 03C2 03C2 03C2 03C2	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time %	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max System Frequency Max Total Export Frequency Max System Frequency Max System Frequency Max Total Export Frequency Max Total Export Frequency Max Total Export Frequency Max Total Export Frequency Max System Freq	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1	V V V V V V V V V V V V V V V V V V V	v v v v v v v v v v v v v v v v v v v	V V V V V V V V V V V V V V V V V V V
986   03DA   uint   2   Time   L4 Phase Max Current THD Time   Unix Time Stamp	932 934 936 938 940 942 944 946 950 952 954 966 962 964 966 968 970 972 974 976 978	03A2 03A4 03A6 03A8 03AA 03AC 03AE 03B0 03B2 03B3 03B3 03B6 03B8 03B6 03B6 03B6 03B6 03B6 03C0 03C2 03C2 03C2 03C2 03C2 03C3 03C3	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Time Max System Frequency Max Voltage THD L2 Phase Max. Voltage THD Time L3 Phase Max. Voltage THD Time L4 Phase Max. Voltage THD Time L1-L2 Max Voltage THD Time L1-L2 Max Voltage THD Time L1-L3 Max Voltage THD Time L2-L3 Max Voltage THD Time L3-L1 Max Voltage THD Time L1 Phase Max Current THD Time L1 Phase Max Current THD Time L2 Phase Max Current THD Time L2 Phase Max Current THD Time L2 Phase Max Current THD Time	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
988   03DC   uint   2   V/10   1   Phase Min Voltage   0.1   V   V   V   V   V   V   V   V   V	932 934 936 938 940 942 944 950 952 954 956 962 964 966 968 970 972 974 976 978 980	03A2 03A4 03A6 03A6 03AC 03AC 03AC 03BC 03BA 03BA 03BC 03BA 03BC 03C 03C 03C 03C 03C 03C 03C 03C 03C 03	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time %	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max System Frequency Max Total Export Frequency Max System Frequency Max Total Export Frequency Max System Frequen	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
990   03DE   uint   2   Time   L1 Phase Min Voltage Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 936 949 942 944 946 950 952 956 958 960 962 964 968 970 972 974 976 978 980 982	03A2 03AA 03AA 03AA 03AA 03AC 03B2 03B2 03B2 03B3 03B3 03B3 03B3 03C0 03C2 03C2 03C2 03C2 03C3 03C3 03C	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time %	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Time Max System Frequency Max Voltage THD L2 Phase Max. Voltage THD Time L4 Phase Max. Voltage THD Time L1-12 Max Voltage THD Time L1-12 Max Voltage THD Time L2-13 Max Voltage THD Time L3-14 Max Voltage THD Time L3-14 Max Voltage THD Time L3-14 Max Voltage THD Time L3-15 Phase Max Current THD L1 Phase Max Current THD L2 Phase Max Current THD L3 Phase Max Current THD L3 Phase Max Current THD L4 Phase Max Current THD L5 Phase Max Current THD L6 Phase Max Current THD L6 Phase Max Current THD L6 Phase Max Current THD L7 Phase Max Curren	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
994 03E2 uint 2 Time L2 Phase Min Voltage Time Unix Time Stamp	932 934 936 938 942 944 946 950 952 954 956 968 960 962 964 970 972 974 976 978 980 982	03A2 03A4 03A6 03A6 03A6 03AC 03AC 03B4 03B4 03B6 03B3 03B3 03B3 03B3 03B3 03B3 03B3	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time %	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Max Total Apparent Power Max System Frequency Max System Frequency Max System Frequency Mix Syst	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
996 03E4 uint 2 V/10 13 Phase Min Voltage 998 03E6 uint 2 Time 14 Phase Min Voltage Unix Time Stamp V V V 998 03E6 uint 2 Time 14 Phase Min Voltage Unix Time Stamp V V V 998 03E6 uint 2 V/10 14 Phase Min Voltage Unix Time Stamp V V V 998 03E6 uint 2 Time 14 Phase Min Voltage Unix Time Stamp V V V 998 03E6 uint 2 Time 14 Phase Min Voltage Unix Time Stamp V V V 998 03E6 uint 2 Time 14 Phase Min Voltage Unix Time Stamp V V V 998 03E6 Unix 2 V/10 14-12 Min Voltage Unix Time Stamp V V V 998 03E6 Unix 2 V/10 12-13 Min Voltage Time Unix Time Stamp V V V V 998 03E7 Unix 2 Time 12-13 Min Voltage Unix Time Stamp V V V V 998 03E7 Unix 2 Time 12-13 Min Voltage Unix Time Stamp V V V V 998 03E7 Unix 2 Time 12-13 Min Voltage Unix Time Stamp V V V V V 999 03E7 Unix 2 Time Unix Time Stamp V V V V V V V V 999 03E7 Unix 2 Time Unix Time Stamp V V V V V V V V V V V V V V V V V V V	932 934 936 940 942 944 948 950 952 954 966 962 964 966 970 972 974 976 988 980 982 984 988	03A2 03A4 03A6 03A6 03A6 03AC 03AC 03BC 03BC 03BC 03BC 03C2 03C4 03C2 03C2 03C2 03C2 03C2 03C2 03C3 03C3	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Time Max System Frequency Max Total Apparent Frequency	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
988 03E6 uint 2 Time 13 Phase Min Voltage Time 0.1  1000 03E8 uint 2 V/10 14 Phase Min Voltage Time 0.1  1001 03E8 uint 2 V/10 14 Phase Min Voltage Time 0.1  1002 03EA uint 2 V/10 14 Phase Min Voltage Time 0.1  1004 03EC uint 2 V/10 14-12 Min Voltage Time 0.1  1005 03EE uint 2 V/10 12-13 Min Voltage Time 0.1  1008 03EC uint 2 V/10 12-13 Min Voltage Time 0.1  1010 03E2 uint 2 V/10 12-13 Min Voltage Time 0.1  1010 03E2 uint 2 V/10 12-13 Min Voltage Time 0.1  1010 03E2 uint 2 V/10 12-13 Min Voltage Time 0.1  1010 03E2 uint 2 V/10 12-13 Min Voltage Time 0.1  1010 03E3 uint 2 V/10 12-13 Min Voltage Time 0.1  1010 03E3 uint 2 V/10 12-13 Min Voltage Time 0.1  1010 03E4 uint 2 V/10 12-13 Min Voltage Time 0.1  1011 03F6 uint 2 V/10 14 Phase Min Current 0.001 V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/	932 934 936 940 942 944 956 952 954 966 962 974 976 978 979 988 980 982 984 986 988	03A2 03AA 03AA6 03AA6 03AA6 03AC 03AC 03BC 03BC 03BC 03C 03C 03C 03C 03C 03C 03C 03C 03C 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Mix S	1 Unix Time Stamp 1 Unix Time Stamp 0.1	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1000   03E8   uint   2   V/10   L4 Phase Min Voltage   0.1	932 934 938 940 942 944 950 952 954 966 968 970 972 976 978 980 982 984 988 990 992	03A2 03A4 03A6 03A6 03A6 03AC 03AC 03BC 03BC 03BC 03BC 03BC 03CC 03CC 03C	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Ti	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max Total Apparent Max Poster Frequency Max System Frequency Max Total Apparent Max System Frequency Max System Frequency Max System Frequency Max Total Apparent Max System Frequency Max Total Apparent Max System Frequency Max Syst	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1004   03EC   uint   2   V/10   1.1-12 Min Voltage   0.1   V   V   V   V   V   V   V   V   V	932 934 938 940 942 944 950 952 954 966 968 970 972 974 976 988 980 982 984 986 988 990	03A2 03AA 03AA6 03AA6 03AA6 03AAC 03AC 03AC 03BC 03BB 03BA 03BC 03C 03C 03C 03C 03C 03C 03C 03C 03C 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10 Time V/10 Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max System Frequency Max System Frequency Max System Frequency Max System Frequency Mix System Mix Voltage THD Li Phase Mix Voltage THD Time Li Phase Mix Voltage THD Time Li Phase Mix Voltage THD Time Li Phase Mix Voltage THD Li Mix Voltage THD Li Mix Voltage THD Li Mix Voltage THD Li Mix Voltage THD Time Li Phase Mix Voltage THD Time Li Phase Mix Current THD Li Phase Max Current THD Li Phase Mix Current THD Li Phas	1 Unix Time Stamp 1 Unix Time Stamp 0.1	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1006   03EE   uint   2   Time   L1-L2 Min Voltage Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 938 940 942 944 950 952 964 966 962 970 972 974 980 982 984 988 989 989 999	03A2 03A4 03A6 03A6 03AC 03AC 03AC 03AC 03BC 03BC 03BC 03BC 03C 03C 03C 03C 03C 03C 03C 03C 03C 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Ti	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Mix S	1 Unix Time Stamp 1 Unix Time Stamp 0.1	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1010   03F2   uint   2   Time   L2-L3 Min Voltage Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 938 940 942 944 950 952 954 966 968 970 972 974 976 988 980 982 984 986 988 990	03A2 03AA2 03AA6 03AA6 03AAC 03AC2 03AC2 03BC 03BC2 03BC3 03C2 03C2 03C2 03C2 03C2 03C2 03C2 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10 Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max System Frequency Max System Fre	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1012   03F4   uint   2   V/10   L3-L1 Min Voltage   0.1   V   V   V   V   V   V   V   V   V	932 934 938 940 942 944 956 952 954 966 968 968 967 972 974 976 982 984 980 982 994 995 991 991 992 994 1000 1002	03A2 03AA2 03AA6 03AA6 03AAC 03AC 03AC 03BC 03BC 03BC 03BC 03C2 03C2 03C2 03C2 03C2 03C2 03C2 03C	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Time V/10 Time V/10 Time V/10 Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Time Max System Frequency Max Voltage THD L1 Phase Max. Voltage THD Time L3 Phase Max. Voltage THD Time L4 Phase Max. Voltage THD L1-12 Max Voltage THD Time L1-13 Max Voltage THD Time L3-11 Max Voltage THD Time L3 Phase Max Current THD L1 Phase Max Current THD L1 Phase Max Current THD L2 Phase Max Current THD L3 Phase Max Current THD L4 Phase Max Current THD L7 Phase Max Current THD L8 Phase Max Current THD L9 Phase Max Current THD	1 Unix Time Stamp 1 Unix Time Stamp 0.1	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1014   0.3F6   uint   2   Time   13-11 Min Voltage Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 936 940 942 952 954 956 968 966 968 970 974 976 980 982 984 980 982 994 995 981 982 991 991 992 994 996 991	03A2 03AA2 03AA6 03AA6 03AA6 03AAC 03AC2 03BC2 03BC2 03BC3 03C2 03C2 03C2 03C2 03C2 03C3 03C3 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Max System Frequency Time II Phase Max. Voltage THD II Phase Max. Voltage THD II Phase Max. Voltage THD Time II Phase Max. Voltage THD II Phase Max. Voltage THD II Apparent Max. Voltage Time II Apparent Max.	1 Unix Time Stamp 1 Unix Time Stamp 1 Unix Time Stamp 0.1	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1018   03FA   uint   2   Time   L1 Phase Min Current Time   Unix Time Stamp   V   V   V   V   V   V   V   V   V	932 934 938 940 942 944 956 952 954 966 968 968 967 972 974 976 982 984 980 982 994 995 991 991 992 994 1000 1002	03A2 03A4 03A6 03A6 03A6 03AC 03AC 03BC 03BC 03BC 03BC 03BC 03C 03C 03C 03C 03C 03C 03C 03C 03C 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10 Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max Total Apparent Power Max System Frequency Max System Frequency Max System Frequency Max System Frequency Mix System Mix Voltage THD LI Phase Mix Voltage THD Time LI Mix System Mix Voltage THD LI Mix System Mix Voltage THD LI Mix System Mix Voltage THD LI Mix System Mix System Mix	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1020   03FC   uint   2   A/10   L2 Phase Min Current   0.001   V   V   V     1022   03FE   uint   2   Time   L2 Phase Min Current Time   Uink Time Stamp   V   V   V     1024   0400   uint   2   A/10   L3 Phase Min Current   0.001   V   V   V     1026   0402   uint   2   Time   L3 Phase Min Current Time   Uink Time Stamp   V   V     1028   0404   uint   2   A/10   L4 Phase Min Current Time   Uink Time Stamp   V   V     1030   0406   uint   2   Time   L4 Phase Min Current Time   Uink Time Stamp   V   V     1030   0406   uint   2   Time   L4 Phase Min Current Time   Uink Time Stamp   V   V     1030   0406   uint   2   Time   L4 Phase Min Current Time   Uink Time Stamp   V   V     1030   0406   uint   2   Time   Uink Time Stamp   V   V     1040   Uink Time Stamp   V   V   V     1050   0406   Uink Time Stamp   V   V   V     1050   Uink Time Stamp   V   V   V   V     1050   Uink Time Stamp   V   V   V     1050   Uink Time Stamp   V   V   V   V   V     1050   Uink Time Stamp   V   V   V   V   V     1050   Uink Time Stamp   V   V   V   V   V     1050   Uink Time Stamp   V   V   V   V   V   V     1050   Uink Time Stamp   V   V   V   V   V   V     1050   Uink Time Stamp   V   V   V   V   V   V   V     1050	932 934 936 940 942 944 946 950 952 954 966 968 970 972 984 986 988 990 992 1004 1002 1004 1010 1011	03A2 03A2 03A6 03A6 03A8 03A6 03A8 03A6 03A6 03B2 03B2 03B3 03B3 03B3 03B3 03B3 03B3	uint float uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10 Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Time Max System Frequency	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	
1022         03FE         uint         2         Time         L2 Phase Min Current Time         Unix Time Stamp         ✓         ✓           1024         0400         uint         2         A/10         L3 Phase Min Current         0.001         ✓         ✓         ✓           1026         0402         uint         2         Time         L3 Phase Min Current Time         Unix Time Stamp         ✓         ✓         ✓           1028         0404         uint         2         A/10         L4 Phase Min Current Time         0.001         Unix Time Stamp           1030         0406         uint         2         Time         L4 Phase Min Current Time         Unix Time Stamp	932 934 936 938 940 944 946 952 955 958 964 968 970 974 976 982 974 988 989 994 994 992 1000 1002 1004 1010 1011 1011	03A2 03A4 03A6 03A6 03A6 03AC 03AC 03AC 03B0 03B0 03B0 03B0 03B0 03B0 03B0 03C 03C 03C 03C 03C 03C 03C 03C 03C 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Max System Frequency Mine Mine Mine Mine Mine Mine Mine Mine	1 Unix Time Stamp		V V V V V V V V V V V V V V V V V V V	
1024     0400     uint     2     A/10     L3 Phase Min Current     0.001     ✓     ✓       1026     0402     uint     2     Time     L3 Phase Min Current Time     Unix Time Stamp     ✓     ✓       1028     0404     uint     2     A/10     L4 Phase Min Current     0.001        1030     0406     uint     2     Time     L4 Phase Min Current Time     Unix Time Stamp	932 934 936 940 942 944 946 950 952 954 966 968 970 972 984 986 988 990 992 1004 1002 1004 1010 1011	03A2 03A2 03A6 03A6 03A6 03A7 03A6 03A7 03A7 03A7 03B7 03B7 03B7 03B7 03B7 03B7 03B7 03B	uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10 Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max System Frequency Max System Fre	1 Unix Time Stamp 1 Unix Time Stamp 0.1	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1028   0404   uint   2   A/10   L4 Phase Min Current   0.001   1030   0406   uint   2   Time   L4 Phase Min Current Time   Unix Time Stamp	932 934 936 942 942 944 950 952 952 954 966 968 968 972 974 978 980 982 984 990 994 1000 1002 1006 1008 1006 1010 1011 1016 1016 1016	03A2 03A2 03A6 03A6 03A6 03A6 03AC 03AC 03AC 03AC 03BC 03BC 03BC 03BC 03C 03C 03C 03C 03C 03C 03C 03C 03C 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time F/10 Time % Ti	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Max System Frequency Mine Mine Mine Mine Mine Mine Mine Mine	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp 0.001 Unix Time Stamp		V V V V V V V V V V V V V V V V V V V	
1030	932 934 936 949 942 944 950 958 960 968 970 972 974 976 982 984 986 980 992 994 996 1000 1001 1010 1010 1010 1010 1011 1016 1018	03A2 03A2 03A6 03A6 03A6 03A6 03A6 03A6 03A6 03A6	uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10 Time A/10 Time A/10 Time A/10	Max Total Import Apparent Power Time Max Total Export Apparent Power Time Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Time Li Phase Max. Voltage THD Li Phase Max. Voltage THD Time Li Phase Max. Voltage THD Li Phase Max. Voltage THD Li Phase Max. Voltage THD Li Li Max Voltage THD Li Phase Max. Voltage THD Li Phase Max. Voltage THD Li Phase Max Untage THD Li Phase Max Untage THD Li Phase Max Current THD Li Phase Min Voltage Li Phase Min Current Li Phase	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp 0.01 Unix Time Stamp 0.001	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V
1032 0408 uint 2 A/10 IN Min Current 0.001 V V	932 934 936 938 940 942 944 950 952 954 966 968 968 977 978 984 988 990 992 994 901 1006 1006 1006 1016 1018 1016 1016 1018 1010 1016 1018 1010 1016 1018 1020 1024 1026 1026 1026 1027 1027 1026 1027 102	03A2 03A2 03A6 03A6 03A6 03AC 03AC 03BC 03BC 03BC 03BC 03C 03C 03C 03C 03C 03C 03C 03C 03C 03	uint float uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time V/10 Time V/	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Max System Frequency Max System Frequency Max System Frequency Max System Frequency Mix	1 Unix Time Stamp 0.1 Unix Time Stamp 0.001 Unix Time Stamp 0.001 Unix Time Stamp 0.001 Unix Time Stamp	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	
	932 934 936 938 940 942 944 950 952 954 966 968 970 972 974 976 978 984 990 982 984 990 982 994 1000 1004 1006 1010 1011 1016 1016 1017 1016 1017 1016 1018 1020 1026 1036 1036 1036 1036 1036 1036 1036 1036 1036 1036 1036 1036 1036 1036 1036 1036 1037 1037 1038 1038 1039 1049 1059 1069 1079	03A2 03A2 03A6 03A6 03A8 03A6 03A6 03A6 03A6 03A6 03B6 03B6 03B6 03B6 03B6 03B6 03B6 03B	uint float uint uint uint uint uint uint uint uin	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VA/10 Time VA/10 Time VA/10 Time VA/10 Time VA/10 Time % Time A/10 Time	Max Total Import Apparent Power Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Time Max Total Export Apparent Power Max Total Export Apparent Power Max Total Apparent Power Max Total Apparent Power Time Max System Frequency Max System Frequency Max System Frequency Mix System Frequency	1 Unix Time Stamp 1 Unix Time Stamp 0.1 Unix Time Stamp 0.01 Unix Time Stamp 0.001 Unix Time Stamp 0.001 Unix Time Stamp 0.001 Unix Time Stamp		V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V

4024	0404		-	T'	Turn a con	Het Too Green	· ·	_	·
1034 1036	040A 040C	uint	2	Time W/10	IN Min Current Time L1 Phase Min Active Power	Unix Time Stamp 1	· ·	· ·	· ·
1038	040E	uint	2	Time	L1 Phase Min Active Power Time	Unix Time Stamp	✓ ✓	·	✓ ✓
1040 1042	0410 0412	float	2	W/10 Time	L2 Phase Min Active Power L2 Phase Min Active Power Time	1 Unix Time Stamp	<b>✓</b>	✓ ✓	<b>✓</b>
1044	0414	float	2	W/10	L3 Phase Min Active Power	1	<b>V</b>	·	<b>V</b>
1046 1048	0416 0418	uint	2	Time W/10	L3 Phase Min Active Power Time L4 Phase Min Active Power	Unix Time Stamp 1	<b>✓</b>	<b>√</b>	<b>√</b>
1050	041A	uint	2	Time	L4 Phase Min Active Power Time	Unix Time Stamp			
1052 1054	041C 041E	float	2	W/10 Time	Min Total Import Active Power Min Total Import Active Power Time	1 Unix Time Stamp	✓ ✓	✓ ✓	· ·
1056	0420	float	2	W/10	Min Total Export Active Power	1	· ·	· /	· ·
1058	0422	uint	2	Time	Min Total Export Active Power Time	Unix Time Stamp	· /	· /	✓ ✓
1060 1062	0424 0426	float	2	W/10 Time	Min Total Active Power Min Total Active Power Time	1 Unix Time Stamp	✓ ✓	<b>✓</b>	· ·
1064	0428	float	2	Var/10	L1 Phase Min Reactive Power	1	✓	✓	✓
1066 1068	042A 042C	uint	2	Time Var/10	L1 Phase Min Reactive Power Time L2 Phase Min Reactive Power	Unix Time Stamp  1	✓ ✓	· /	· ·
1070	042E	uint	2	Time	L2 Phase Min Reactive Power Time	Unix Time Stamp	· ·	·	· ·
1072	0430	float	2	Var/10	L3 Phase Min Reactive Power	1	· /	· /	✓ ✓
1074 1076	0432 0434	uint	2	Time Var/10	L3 Phase Min Reactive Power Time L4 Phase Min Reactive Power	Unix Time Stamp 1			<b>V</b>
1078	0436	uint	2	Time	L4 Phase Min Reactive Power Time	Unix Time Stamp			
1080 1082	0438 043A	float	2	Var/10 Time	Quadrant 1 Min Reactive Power  Quadrant 1 Min Reactive Power Time	1 Unix Time Stamp	<b>✓</b>	<b>✓</b>	· ·
1084	043C	float	2	Var/10	Quadrant 1 Min Reactive Power  Quadrant 2 Min Reactive Power	1	·	·	· ·
1086	043E	uint	2	Time	Quadrant 2 Min Reactive Power Time	Unix Time Stamp	✓ ✓	· ·	· ·
1088 1090	0440	float	2	Var/10 Time	Quadrant 3 Min Reactive Power Quadrant 3 Min Reactive Power Time	1 Unix Time Stamp	· ·	· ·	· ·
1092	0444	float	2	Var/10	Quadrant 4 Min Reactive Power	1	✓	✓	✓
1094 1096	0446 0448	uint float	2	Time Var/10	Quadrant 4 Min Reactive Power Time Quadrant Total Min Reactive Power	Unix Time Stamp	✓ ✓	· /	✓ ✓
1098	0448	uint	2	Time	Quadrant Total Min Reactive Power  Quadrant Total Min Reactive Power Time	Unix Time Stamp	· /	· /	· /
1100	044C	float	2	VA/10	L1 Phase Min Apparent Power	1	<b>√</b>	<b>4</b>	<b>4</b>
1102 1104	044E 0450	uint	2	Time VA/10	L1 Phase Min Apparent Power Time L2 Phase Min Apparent Power	Unix Time Stamp 1	✓ ✓	✓ ✓	✓ ✓
1106	0452	uint	2	Time	L2 Phase Min Apparent Power Time	Unix Time Stamp	✓	✓	<b>✓</b>
1108	0454	float	2	VA/10	L3 Phase Min Apparent Power	1	<b>✓</b>	· /	✓ ✓
1110 1112	0456 0458	uint	2	Time VA/10	L3 Phase Min Apparent Power Time L4 Phase Min Apparent Power	Unix Time Stamp 1	<u> </u>	•	•
1114	045A	uint	2	Time	L4 Phase Min Apparent Power Time	Unix Time Stamp			
1116 1118	045C 045E	float	2	VA/10 Time	Min Total Import Apparent Power Min Total Import Apparent Power Time	1 Unix Time Stamp	<b>✓</b>	<b>✓</b>	✓ ✓
1120	0460	float	2	VA/10	Min Total Export Apparent Power	1	✓	✓	✓
1122	0462	uint	2	Time	Min Total Export Apparent Power Time	Unix Time Stamp	✓ ✓	· /	· ·
1124 1126	0464 0466	float	2	VA/10 Time	Min Total Apparent Power Min Total Apparent Power Time	Unix Time Stamp	· ·	·	· ·
1128	0468	uint	2	F/10	Min System Frequency	0.1	✓	✓	✓
1130 1132	046A 046C	uint uint	2	Time %	Min System Frequency Time L1 Phase Min. Voltage THD	Unix Time Stamp 0.1	<b>✓</b>	<b>✓</b>	· ·
1134	046E	uint	2	Time	L1 Phase Min. Voltage THD Time	Unix Time Stamp	· /	· /	· /
1136	0470	uint	2	%	L2 Phase Min Voltage THD	0.1	<b>V</b>	<b>V</b>	<b>V</b>
1138 1140	0472 0474	uint uint	2	Time %	L2 Phase Min. Voltage THD Time L3 Phase Min. Voltage THD	Unix Time Stamp 0.1	✓ ✓	✓ ✓	· ·
1142	0476	uint	2	Time	L3 Phase Min. Voltage THD Time	Unix Time Stamp	<b>✓</b>	<b>✓</b>	<b>✓</b>
1144 1146	0478 047A	uint uint	2	% Time	L4 Phase Min. Voltage THD  L4 Phase Min. Voltage THD Time	0.1 Unix Time Stamp			
1148	047A	uint	2	%	L1-L2 Min Voltage THD	0.1	<b>√</b>	<b>✓</b>	<b>√</b>
1150	047E	uint	2	Time	L1-L2 Min Voltage THD Time	Unix Time Stamp	·	·	<b>V</b>
1152 1154	0480 0482	uint uint	2	% Time	L2-L3 Min Voltage THD L2-L3 Min Voltage THD Time	0.1 Unix Time Stamp	✓ ✓	✓ ✓	✓ ✓
1156	0484	uint	2	%	L3-L1 Min Voltage THD	0.1	<b>✓</b>	<b>V</b>	<b>V</b>
1158 1160	0486 0488	uint uint	2	Time %	L3-L1 Min Voltage THD Time L1 Phase Min Current THD	Unix Time Stamp 0.1	<b>√</b>	· /	· ·
1162	048A	uint	2	,-	L1 Phase Min Current THD Time	Unix Time Stamp	✓	✓	✓
1164 1166	048C 048E	uint uint	2	%	L2 Phase Min Current THD	0.1 Unix Time Stamp	✓ ✓	· ·	1
1168	0490	uint	2	%	L2 Phase Min Current THD Time L3 Phase Min Current THD	0.1	· /	· /	· ·
1170	0492	uint	2	0/	L3 Phase Min Current THD Time	Unix Time Stamp	<b>✓</b>	<b>√</b>	<b>√</b>
1172 1174	0494 0496	uint uint	2	%	L4 Phase Min Current THD L4 Phase Min Current THD Time	0.1 Unix Time Stamp			
1176	0498	uint	2	mA	L1 Phase Current Demand	0.001	·	·	<b>V</b>
1178 1180	049A 049C	uint uint	2	mA mA	L2 Phase Current Demand L3 Phase Current Demand	0.001 0.001	✓ ✓	✓ ✓	✓ ✓
1182	049E	uint	2	mA	L4 Phase Current Demand	0.001			
1184	04A0	uint	2	mA W/10	IN Current Demand	0.001	✓ ✓	· ·	✓ ✓
1186 1188	04A2 04A4	float	2	W/10 W/10	L1 Phase Active Power Demand L2 Phase Active Power Demand	1	· ·	· ·	· ·
1190	04A6	float	2	W/10	L3 Phase Active Power Demand	1	<b>√</b>	<b>✓</b>	<b>√</b>
1192 1194	04A8 04AA	float	2	W/10 W/10	L4 Phase Active Power Demand Total Import Active Power Demand	1	<b>√</b>	<b>✓</b>	<b>√</b>
1196	04AC	float	2	W/10	Total Export Active Power Demand	1	· /	· /	· /
1198 1200	04AE 04B0	float	2	W/10 Var/10	Total Active Power Demand	1			
1200	04B0 04B2	float	2	Var/10 Var/10	L1 Phase Reactive Power Demand L2 Phase Reactive Power Demand	1			
1204	04B4	float	2	Var/10	L3 Phase Reactive Power Demand	1			
1206 1208	04B6 04B8	float	2	Var/10 Var/10	L4 Phase Reactive Power Demand  Quadrant 1 Total Reactive Powe Demand	1			
1210	04BA	float	2	Var/10	Quadrant 2 Total Reactive Powe Demand	1			
1212	04BC 04BE	float	2	Var/10 Var/10	Quadrant 3 Total Reactive Powe Demand	1			
1214 1216	04BE 04C0	float	2	Var/10 Var/10	Quadrant 4 Total Reactive Powe Demand Total Reactive Power Demand	1			
1218	04C2	float	2	VA/10	L1 Phase Apparent Power Demand	1	1	1	✓ ✓
1220 1222	04C4 04C6	float	2	VA/10 VA/10	L2 Phase Apparent Power Demand L3 Phase Apparent Power Demand	1	✓ ✓	✓ ✓	✓ ✓
1224	04C8	float	2	VA/10	L4 Phase Apparent Power Demand	1			
1226 1228	04CA 04CC	float	2	VA/10 VA/10	Total Import Apparent Power Demand Total Export Apparent Power Demand	1	✓ ✓	· ·	✓ ✓
1230	04CE	float	2	VA/10 VA/10	Total Apparent Power Demand Total Apparent Power Demand	1			
1232	04D0	uint	2	mA	L1 Phase Max. Current Demand	0.001	<b>V</b>	<b>V</b>	<b>V</b>
1234 1236	04D2 04D4	uint uint	2	Time mA	L1 Phase Max. Current Demand Time L2 Phase Max. Current Demand	Unix Time Stamp 0.001	✓ ✓	✓ ✓	✓ ✓
1238	04D6	uint	2	Time	L2 Phase Max. Current Demand Time	Unix Time Stamp	· /	· /	V
1240 1242	04D8 04DA	uint uint	2	mA Time	L3 Phase Max. Current Demand L3 Phase Max. Current Demand Time	0.001 Unix Time Stamp	✓ ✓	· ·	· ·
1242	04DA 04DC	uint	2	mA	L4 Phase Max. Current Demand Time L4 Phase Max. Current Demand	0.001			
1246	04DE	uint	2	Time	L4 Phase Max. Current Demand Time	Unix Time Stamp	<b>√</b>	<b>✓</b>	·
1248 1250	04E0 04E2	uint uint	2	mA Time	IN Max. Current Demand IN Phase Max. Current Demand Time	0.001 Unix Time Stamp	· ·	· ·	✓ ✓
1252	04E4	float	2	W/10	PL1 Max Active Import Power	1	<b>V</b>	·	<b>V</b>
1254	04E6	uint	2	Time	PL1 Max Active Import Power Time	Unix Time Stamp	✓	✓	✓

1256	04E8	float	2	W/10	PL1 Max Active Export Power	1	<b>/</b>	<b>✓</b>	✓
1258	04EA	uint	2	Time	PL1 Max Active Export Power Time	Unix Time Stamp	<b>√</b>	<b>√</b>	<b>/</b>
1260	04EC	float	2	W/10	PL2 Max Active Import Power	1	<b>/</b>	<b>/</b>	_
1262	04EE	uint	2	Time	PL2 Max Active Import Power Time	Unix Time Stamp	/	· ·	<b>/</b>
1264	04F0	float	2	W/10	PL2 Max Active Export Power	1	<b>/</b>	<b>/</b>	<b>✓</b>
1266	04F2	uint	2	Time	PL2 Max Active Export Power Time	Unix Time Stamp	1	/	_
1268	04F4	float	2	W/10	PL3 Max Active Import Power	1	1	1	/
1270	04F6	uint	2	Time	PL3 Max Active Import Power Time	Unix Time Stamp	/	/	_
1272	04F8	float	2	W/10	PL3 Max Active Export Power	1	1	1	/
1274	04FA	uint	2	Time	PL3 Max Active Export Fower Time	Unix Time Stamp	· ·	· ·	· ·
1276	04FC	float	2	W/10	PL4 Max Active Import Power	1			·
1278	04FE	uint	2	Time	PL4 Max Active Import Power Time	Unix Time Stamp			
1280	0500	float	2	W/10	PL4 Max Active Export Power	1			
1282	0502	uint	2	Time	PL4 Max Active Export Power Time	Unix Time Stamp			
1284	0504	float	2	W/10	Total Active Power Import Max Demand	1	<b>√</b>	<b>✓</b>	<b>✓</b>
1286	0506	uint	2	Time	Total Active Power Import Max Demand Time	Unix Time Stamp	1	/	_
1288	0508	float	2	W/10	Total Active Power Export Max Demand	1	1	1	/
1290	050A	uint	2	Time	Total Active Power Export Max Demand Time	Unix Time Stamp	/	/	_
1292	050C	float	2	Var/10	L1 Phase Max Demand Reactive Power	1			·
1294	050E	uint	2	Time	L1 Phase Max Demand Reactive Power	Unix Time Stamp			
1296	0510	float	2	Var/10	L2 Phase Max Demand Reactive Power	1			
1298	0510	uint	2	Time	L2 Phase Max Demand Reactive Power	Unix Time Stamp			
1300	0512	float	2	Var/10	L3 Phase Max Demand Reactive Power	1			
			2			_			
1302 1304	0516	uint	2	Time	L3 Phase Max Demand Reactive Power Time	Unix Time Stamp			
1304	0518 051A	float	2	Var/10 Time	L4 Phase Max Demand Reactive Power	Unix Time Stamp			
		uint	2		L4 Phase Max Demand Reactive Power Time	Unix Time Stamp			
1308 1310	051C 051E	float	2	Var/10 Time	Quadrant 1 Max Demand Reactive Power	1			
					Quadrant 1 Max Demand Reactive Power Time	Unix Time Stamp			
1312	0520	float	2	Var/10	Quadrant 2 Max Demand Reactive Power	1			
1314	0522	uint		Time	Quadrant 2 Max Demand Reactive Power Time	Unix Time Stamp			
1316	0524	float	2	Var/10	Quadrant 3 Max Demand Reactive Power	1			
1318	0526	uint	2	Time	Quadrant 3 Max Demand Reactive Power Time	Unix Time Stamp			
1320	0528	float	2	Var/10	Quadrant 4 Max Demand Reactive Power	-			
1322	052A	uint	2	Time	Quadrant 4 Max Demand Reactive Power Time	Unix Time Stamp			
1324	052C	float	2	Var/10	Quadrant Total Max Demand Reactive Power	*			
1326	052E	uint	2	Time	Quadrant Total Max Demand Reactive Power Time	Unix Time Stamp			
1328	0530	float	2	W/10	SL1 Max Demand Import Power	1	· /	✓ ✓	✓ ✓
1330	0532	float	2	Time	SL1 Max Demand Import Power Time	Unix Time Stamp			
1332	0534	float	2	W/10	SL1 Max Demand Export Power	1	· /	· /	✓ ✓
1334	0536	uint	2	Time	SL1 Max Demand Export Power Time	Unix Time Stamp			
1336	0538	float	2	W/10	SL2 Max Demand Import Power	1	· /	<b>√</b>	<b>√</b>
1338	053A	uint	2	Time	SL2 Max Demand Import Power Time	Unix Time Stamp	<b>✓</b>	<b>√</b>	<b>V</b>
1340	053C	float	2	W/10	SL2 Max Demand Export Power	1	· /	<b>√</b>	<b>√</b>
1342	053E	uint	2	Time	SL2 Max Demand Export Power Time	Unix Time Stamp	· /	· /	✓ ✓
1344	0540	float	2	W/10	SL3 Max Demand Import Power	1			
1346	0542	uint	2	Time	SL3 Max Demand Import Power Time	Unix Time Stamp	✓	✓	✓.
1348	0544	float	2	W/10	SL3 Max Demand Export Power	1	✓	✓	✓
1350	0546	uint	2	Time	SL3 Max Demand Export Power Time	Unix Time Stamp	<b>✓</b>	<b>✓</b>	<b>✓</b>
1352	0548	float	2	W/10	SL4 Max Demand Import Power	1			
1354	054A	uint	2	Time	SL4 Max Demand Import Power Time	Unix Time Stamp			
1356	054C	float	2	W/10	SL4 Max Demand Export Power	1			
1358	054E	uint	2	Time	SL4 Max Demand Export Power Time	Unix Time Stamp			
1360	0550	float	2	VA/10	Total Apparent Power Max Demand	1	✓	✓	✓
1362	0552	uint	2	Time	Total Apparent Power Max Demand Time	Unix Time Stamp	✓	✓	✓.
1364	0554	float	2	VA/10	Total Apparent Power Max Demand	1	✓	✓	✓
1366	0556	uint	2	Time	Total Apparent Power Max Demand Time	Unix Time Stamp	✓	✓	✓

## Harmonics

		THD						
Supported Functions	Start Address	Register Counts						
Read holding registers	2000	24						

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
2000	07D0	uint	2	%	Total Harmoic Distorsion VLL12	0.1	✓	✓	<b>✓</b>
2002	07D2	uint	2	%	Total Harmoic Distorsion VLL23	0.1	✓	✓	✓
2004	07D4	uint	2	%	Total Harmoic Distorsion VLL31	0.1	✓	✓	✓
2006	07D6	uint	2	%	Total Harmonic Distorsion VL1	0.1	✓	✓	✓
2008	07D8	uint	2	%	Total Harmonic Distorsion VL2	0.1	✓	✓	✓
2010	07DA	uint	2	%	Total Harmonic Distorsion VL3	0.1	<b>~</b>	<b>✓</b>	<b>✓</b>
2012	07DC	uint	2	%	Total Harmonic Distorsion VL4	0.1			
2014	07DE	uint	2	%	Total Harmonic Distorsion IL1	0.1	<b>~</b>	<	<b>✓</b>
2016	07E0	uint	2	%	Total Harmonic Distorsion IL2	0.1	<b>✓</b>	<b>✓</b>	<b>✓</b>
2018	07E2	uint	2	%	Total Harmonic Distorsion IL3	0.1	✓	✓	✓
2020	07E4	uint	2	%	Total Harmonic Distorsion IL4	0.1			
2022	07E6	uint	2	%	Total Harmonic Distorsion IN	0.1	✓	✓	✓

		Individual Current Harmonic Order
Supported Functions	Start Address	Register Counts
Read holding registers	3000	251

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
3000	OBB8	ushort	1	%	Number Of Harmonics	0.1		<b>√</b>	<b>✓</b>
3001	OBB9	ushort	1	%	H_IL1_2	0.1		<b>~</b>	✓
3002	OBBA	ushort	1	%	H_IL2_2	0.1		<b>~</b>	✓
3003	OBBB	ushort	1	%	H_IL3_2	0.1		<b>✓</b>	✓
3004	OBBC	ushort	1	%	H_IL4_2	0.1			
3005	OBBD	ushort	1	%	H_ILN_2	0.1		<b>✓</b>	<b>✓</b>
3006	OBBE	ushort	1	%	H_IL1_3	0.1		<b>~</b>	✓
3007	OBBF	ushort	1	%	H_IL2_3	0.1		<b>~</b>	✓
3008	OBCO	ushort	1	%	H_IL3_3	0.1		<b>~</b>	✓
3009	OBC1	ushort	1	%	H_IL4_3	0.1			
3010	OBC2	ushort	1	%	H_ILN_3	0.1		<b>~</b>	✓
								✓	✓
								✓	✓
								<b>~</b>	✓
3241	0CA9	ushort	1	%	H_IL1_50	0.1		<b>~</b>	✓
3242	0CAA	ushort	1	%	H_IL2_50	0.1		<b>✓</b>	✓
3243	0CAB	ushort	1	%	H_IL3_50	0.1		<b>✓</b>	✓
3244	0CAC	ushort	1	%	H_IL4_50	0.1			
3245	0CAD	ushort	1	%	H_ILN_50	0.1		<b>~</b>	<b>✓</b>
3246	0CAE	ushort	1	%	H_IL1_51	0.1		✓	✓
3247	0CAF	ushort	1	%	H_IL2_51	0.1		<b>~</b>	✓
3248	0CB0	ushort	1	%	H_IL3_51	0.1		<b>~</b>	✓
3249	0CB1	ushort	1	%	H_IL4_51	0.1			
3250	0CB2	ushort	1	%	H_ILN_51	0.1		✓	✓

Supported Functions	Start Address	Register Counts	
Read holding registers	4000	201	

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
4000	0FA0	ushort	1	%	Number Of Harmonics	0.1		~	~
4001	0FA1	ushort	1	%	H_V1_2	0.1		<	✓
4002	0FA2	ushort	1	%	H_V2_2	0.1		<b>✓</b>	<b>✓</b>
4003	0FA3	ushort	1	%	H_V3_2	0.1		<b>✓</b>	<b>✓</b>
4004	0FA4	ushort	1	%	H_V4_2	0.1			
4005	0FA5	ushort	1	%	H_V1_3	0.1		<	<b>✓</b>
4006	0FA6	ushort	1	%	H_V2_3	0.1		<	<b>✓</b>
4007	0FA7	ushort	1	%	H_V3_3	0.1		<	<b>✓</b>
4008	0FA8	ushort	1	%	H_V4_3	0.1			
								<	<b>✓</b>
								<	✓
						******		<	<b>✓</b>
4193	1061	ushort	1	%	H_V1_50	0.1		<	✓
4194	1062	ushort	1	%	H_V2_50	0.1		<	<b>✓</b>
4195	1063	ushort	1	%	H_V3_50	0.1		<b>✓</b>	<b>✓</b>
4196	1064	ushort	1	%	H_V4_50	0.1			
4197	1065	ushort	1	%	H_V1_51	0.1		<	<b>✓</b>
4198	1066	ushort	1	%	H_V2_51	0.1		<b>✓</b>	<b>✓</b>
4199	1067	ushort	1	%	H_V3_51	0.1		<	<b>✓</b>
4200	1068	ushort	1	%	H_V4_51	0.1			

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

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
5000	1388	ushort	1	%	NUM_OF_HARMONICS	0.1		✓	✓
5001	1389	ushort	1	%	H_VLL1_2_2	0.1		<b>✓</b>	<b>✓</b>
5002	138A	ushort	1	%	H_VLL2_3_2	0.1		<b>✓</b>	<b>✓</b>
5003	138B	ushort	1	%	H_VLL3_1_2	0.1		<b>~</b>	✓
5004	138C	ushort	1	%	H_VLL1_2_3	0.1		<b>~</b>	✓
5005	138D	ushort	1	%	H_VLL2_3_3	0.1		<b>~</b>	<b>~</b>
5006	138E	ushort	1	%	H_VLL3_1_3	0.1		✓	<b>✓</b>
5007	138F	ushort	1	%	H_VLL1_2_4	0.1		✓	✓
5008	1390	ushort	1	%	H_VLL2_3_4	0.1		✓	✓
5009	1391	ushort	1	%	H_VLL3_1_4	0.1		✓	✓
								✓	✓
								✓	<b>✓</b>
								✓	✓
5145	1419	ushort	1	%	H_VLL1_2_50	0.1		<b>✓</b>	<b>~</b>
5146	141A	ushort	1	%	H_VLL2_3_50	0.1		✓	<b>✓</b>
5147	141B	ushort	1	%	H_VLL3_1_50	0.1		✓	<b>✓</b>
5148	141C	ushort	1	%	H_VLL1_2_51	0.1		✓	✓
5149	141D	ushort	1	%	H_VLL2_3_51	0.1		✓	✓
5150	141E	ushort	1	%	H_VLL3_1_51	0.1		✓	✓
			1		NETWORK SETTINGS	1			
	Supported Functions Start Addr		Start Address						
		olding re		16384	18				
	Write	single re	gister						

		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	MPR25S-22	MPR26S-21	MPR27S-23
16384	4000	ushort	1	-	Network Type: 0: 3P4W 1: 3P3W 2: ARON 3: 3P4W Balanced 4: 3P3W Balanced	1	~	<b>~</b>	~
16385	4001	ushort	1	А	Current Transformer Secondary: 0: 1A 1: 5A	1	~	<b>~</b>	~
16386	4002	ushort	1	А	Current Transformer Primary: 5 9999	1	1	<b>*</b>	<b>✓</b>
16387	4003	ushort	1	-	Voltage Transformer Present: 0-None 1-Present	1	~	<b>✓</b>	~
16388	4004	ushort	1	V	Voltage Transformer Secondary: 50 300	1	✓	<b>✓</b>	✓
16389	4005	uint	2	V	Voltage Transformer Primary: 50 999999	1	✓	✓	~
16391	4007	ushort	1	Minutes	P Demand Time: 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 10: 10 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1			
16392	4008	ushort	1	Minutes	I Demand Time: 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 10: 10 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1	·	<b>~</b>	<b>~</b>
16393	4009	ushort	1	Minutes	V Average Time 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 10: 10 Minutes 20: 20 Minutes 30: 30 Minutes 30: 30 Minutes	1			
16394	400A	ushort	1	Hz	System Frequency: 0: 50 Hz 1: 60 Hz	1	~	<b>✓</b>	~
16395	400B	uint	2	V	System Voltage: VT_Primary 25V* primary/secondary	1	1	<b>✓</b>	<b>✓</b>
16397	400D	ushort	1	А	Systen Current: CT_Primary 1A	1	✓	<b>~</b>	✓
16398	400E	ushort	1	%	Sag Level: 70% 98%	0.1			
16399	16399 400F ushort		1	%	Sag Hysteresis: 0.5% 5%	0.1			

16400	4010	ushort	1		Swell Level: 102% 130%	0.1		
16401	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		

			gisters						
	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
17000	4268	ushort	1	-	Network Type: 0: 3P4W 1: 3P3W 2: ARON 3: 3P4W Balanced	1	<b>~</b>	<b>~</b>	<b>~</b>
17001	4269	ushort	1	А	4: 3P3W Balanced Current Transformer Secondary: 0: 1A 1: 5A	1	<b>√</b>	<b>~</b>	<b>√</b>
17002	426A	ushort	1	А	Current Transformer Primary: 5 – 9999	1	<b>✓</b>	<b>~</b>	4
17003	426B	ushort	1	-	O-None 1-Present	1	<b>√</b>	<b>~</b>	<b>*</b>
17004	426C	ushort	1	V	Voltage Transformer Secondary: 50 300	1	<b>√</b>	✓	✓
17005	426D	uint	2	V	Voltage Seconder Primary:	1	·	·	1
17007	426F	ushort	1	Minutes	50 – 999999 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			
17008	4270	ushort	1	Minutes	Demand Time:	1	<b>~</b>	<b>*</b>	~
17009	4271	ushort	1	Minutes	V Average Time 1: 1 Minute 5: 5 Minutes 10: 10 Minutes 10: 10 Minutes 20: 20 Minutes 30: 30 Minutes 60: 60 Minutes	1			
17010	4272	ushort	1	Hz	System Frequency: 0: 50 Hz 1: 60 Hz	1	<b>√</b>	<b>~</b>	<b>~</b>
17011	4273	uint	2	V	System Voltage: VT_Primary25V* primary/secondary	1	✓	✓	✓
17013	4275	ushort	1	А	Systen Current: CT_Primary 1A	1	✓	✓	✓
17014	4276	ushort	1	%	Sag Level: 70% 98%	0.1			
17015	4277	ushort	1	%	Sag Hysteresis:	0.1			
17016	4278	ushort	1	%	0.5% 5% Swell Level:	0.1			
17017	4279	ushort	1	%	102% 130% Swell Hysteresis:	0.1			
17018	427A	ushort	1	-	0.5% - 5% OUT1 Type: 0: REMOTE 1: PULSE	1	·	·	<b>√</b>
17019	427B	ushort	1	-	2: ALARM  OUT2 Type: 0: REMOTE 1: PULSE 2: ALARM	1	<b>√</b>		<b>~</b>
17020	427C	ushort	1	-	OUT3 Type: 0- REMOTE 1: PULSE 2: ALARM	1			
17021	427D	ushort	1		OUT4 Type: 0: REMOTE 1: PULSE 2: ALARM	1			
17022	427E	ushort	1	-	INPUT I Type: 0. digital 1: PULSE 2: Generator	1	<b>~</b>	<b>~</b>	<b>*</b>
17023	427F	ushort	1	-	INPUT2 Type: 0: digital 1: PULSE 2: Generator	1	<b>~</b>	<b>~</b>	<b>~</b>
17024	4280	ushort	1	-	INPUT3 Type: 0. digital 1: PULSE 2: Generator	1			
17025	4281	ushort	1	,	INPUT4 Type: 0- digital 1: PULSE 2: Generator	1			
17026	4282	ushort	1	-	Analog Output 1 Type: 0: 0 - 5 V 1: 0 - 10 V 2: 5 - 5 V 3: -10 - 10 V 4: N/A 5: 4 - 20 mA 6: 0 - 20 mA 7: 0 - 24 mA	1			<b>~</b>

_									
17027	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: O1, 21: C2, 22: O3, 23: S1, 24: S2, 25: S3, 26: SUMP, 27: SUMP IMP, 28: SUMP EXP, 29: SUMQ, 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 Demand, 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			V
17028	4284	int	2	Depends on parameter	Analog Output1 High	Depends on parameter			✓
17030	4286	int	2	Depends on parameter	Analog Output1 Low	Depends on parameter			✓
17032	4288	ushort	1	-	Analog Output 2 Type:	1			
17033	4289	ushort	1	-	Analog Output 2 Parameter:	1			
17034	428A	uint	2	Depends on parameter	Analog Output2 High	Depends on parameter			
17036	428C	uint	2	Depends on parameter	Analog Output2 Low	Depends on parameter			
17038	428E	ushort	1	- parameter	Analog Output 3 Type:	1			
17039	428F	ushort	1	-	Analog Output 3 Parameter:	1			
17040	4290	uint	2	Depends on	Analan Outsut I Hab				
				parameter Depends on	Analog Output3 High	Depends on parameter			
17042	4292	uint	2	parameter	Analog Output3 Low Analog Output 4 Type:	Depends on parameter			
17044	4294	ushort	1	-		1			
17045	4295	ushort	1	-	Analog Output 4 Parameter:	1			
17046	4296	uint	2	Depends on parameter	Analog Output4 High	Depends on parameter			
17048	4298	uint	2	Depends on parameter	Analog Output4 Low	Depends on parameter			
17050	429A	ushort	1	-	Pulse Input 1: 0: Pasive	1	<b>/</b>	<b>~</b>	4
					1: Active Pulse Input 1 Ratio:				
17051	429B	ushort	1	-	1 20000	1	·	<b>~</b>	<b>✓</b>
17052	429C	ushort	1	-	Pulse Input 2: 0: Pasive	1	✓	✓	✓
17053	429D	ushort	1	-	1: Active Pulse Input 2 Ratio:	1	·	·	1
			_		1 20000 Pulse Input 3:	-			
17054	429E	ushort	1	-	0: Pasive 1: Active	1			
17055	429F	ushort	1	-	Pulse Input 3 Ratio: 1 – 20000	1			
17056	42A0	ushort	1		Pulse Input 4:	1			
17056	42AU	usnort	1	-	0: Pasive 1: Active	1			
17057	42A1	ushort	1	-	Pulse Input 4 Ratio: 1 – 20000	1			
17058	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	1	*	<b>*</b>	·
17059	42A3	ushort	1		Pulse Output1 Parameter:  O: Disable  1: Total Import Active Energy (Q14)  2: Total Export Active Energy (Q23)  3: Total import neactive energy (Q1)  4: Total Export Reactive Energy (Q4)  5: Total Export Reactive Energy (Q4)  6: Total Export Reactive Energy (Q3)  7: Total Import Apparent Energy (Q14)  8: Total Export Apparent Energy (Q14)  9: Total Export Apparent Energy (Q15)  1: Total Import Active Energy (L1)  10: Total Import Active Energy (L2)  11: Total Import Active Energy (L2)	1	<b>V</b>	<b>V</b>	~
17060	42A4	ushort	1	kWh	Pulse Output 1 Ratio: 0: 1 1: 10 2: 100 3: 1000 4: 10000 5: 100000 6: 1000000 Pulse Output 1 Pulse Width:	1	<b>~</b>	<b>~</b>	<b>~</b>
17061	42A5	ushort	1	ms	between 20 - 1000 ms	1	✓	✓	✓
17062	42A6	ushort	1	ms	Pulse Output 1 Pulse Duty: between 20 - 1000 ms	1	<b>✓</b>	<b>~</b>	<b>✓</b>
17063	42A7	ushort	1	-	Pulse Output 2 Parameter:	1			
17064	42A8	ushort	1	-	Pulse Output 2 Ratio:	1			
17065	42A9	ushort	1	ms	Pulse Output 2 Pulse Width:	1			
17066	42AA	ushort	1	ms	Pulse Output 2 Pulse Duty:	1			
17067	42AB	ushort	1	-	Pulse Output3 Parameter:	1			
17068	42AC	ushort	1	-	Pulse Output 3 Ratio:	1			
			l						

17069	42AD	ushort	1	ms	Pulse Output 3 Pulse Width:	1			
17070	42AE	ushort	1	ms	Pulse Output 3 Pulse Duty:	1			
17071	42AF	ushort	1	-	Pulse Output4 Parameter:	1			
ŀ					 Pulse Output 4 Ratio:				
17072	42B0	ushort	1	-		1			
17073	42B1	ushort	1	ms	Pulse Output 4 Pulse Width:	1			
17074	42B2	ushort	1	ms	Pulse Output 4 Pulse Duty:	1			
17075	42B3	ushort	1	_	Alarm1 Status: 0: Pasive	1	·	·	1
17075	4200	usilore	•		I: Active Alarmi Parameter:	-	,	·	
17076	42B4	ushort	1		0: VIN 1: VIL 2: IL 3: In 4: 1 Demand 5: In Demand 6: P 7: Q 8: S 9: SUM P 10: SUM Q 11: SUM Q 12: P Demand 14: SUM S 12: P Demand 14: SUM P Demand 15: S Demand 16: SUM S Demand 16: T SUM S Demand 16: SUM S Demand 16: T SUM S DEMA	mand  M P  M Q  M Q  M S  bemand  emand  1  M P Demand  M S Demand  S Demand  S SPhi  m COS Phi quency  V4  D V  D U  D I  D I  D I  D I  D I  D I  D I		>	~
					26: Input 2				
17077	42B5	ushort	1		0: HIGH 1: LOW 2: In window 3: Out window	1	✓	<b>✓</b>	<b>√</b>
17078	42B6	ushort	1	s	Alarm 1 On Time: 0 9999	0.1	<b>✓</b>	~	✓
17079	42B7	ushort	1	s	Alarm 1 Off Time: 0 9999	0.1	<b>~</b>	<b>✓</b>	✓
17080	42B8	ushort	1	-	: Output 1 1: Output 2 2: Output 3 3: Output 4	1	<b>√</b>	<b>~</b>	<b>~</b>
17081	42B9	int	2	Depends on parameter	Alarm 1 High Threshold Value	Depends on parameter	<b>✓</b>	<b>✓</b>	<b>✓</b>
17083	42BB	int	2	Depends on	Alarm 1 Low Threshold Value	Depends on parameter	<b>√</b>	<b>✓</b>	1
				parameter		0.1			
17085	42BD	ushort	1	%	Alarm 1 Hysteresis		<b>✓</b>	<b>✓</b>	✓
L	42BD 42BE	ushort ushort	1	-	Alarm 1 Hysteresis Alarm2 Status:	1	<i>'</i>	✓ ✓	<b>✓</b>
17085 17086	42BE	ushort	1			1			
17085	42BE 42BF 42C0		1 1 1	-	Alarm2 Status:			<i>* * *</i>	· · · · · · · · · · · · · · · · · · ·
17085 17086 17087 17088 17089	42BE 42BF 42C0 42C1	ushort ushort ushort ushort	1 1 1 1	- - - s	Alarm2 Status:	1 1 1 0.1		<b>* * * * * *</b>	
17085 17086 17087 17088 17089 17090	42BE 42BF 42C0 42C1 42C2	ushort ushort ushort ushort ushort	1 1 1 1 1	-	Alarm2 Status:	1 1 0.1 0.1		<i>* * *</i>	· · · · · · · · · · · · · · · · · · ·
17085 17086 17087 17088 17089	42BE 42BF 42C0 42C1	ushort ushort ushort ushort	1 1 1 1	s s s Depends on	Alarm2 Status:	1 1 1 0.1			
17085 17086 17087 17088 17089 17090 17091	42BE 42BF 42C0 42C1 42C2 42C3 42C4	ushort ushort ushort ushort ushort ushort	1 1 1 1 1 1 2	s s s Depends on parameter Depends on	Alarm2 Status:	1 1 0.1 0.1 0.1 1 Depends on parameter	\( \frac{1}{2} \)		
17085 17086 17087 17088 17089 17090 17091 17092	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6	ushort ushort ushort ushort ushort int int	1 1 1 1 1 1 2	s s s Depends on parameter Depends on parameter	Alarm2 Status:	1 1 0.1 0.1 0.1 1 Depends on parameter		· · · · · · · · · · · · · · · · · · ·	
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8	ushort ushort ushort ushort ushort int int ushort	1 1 1 1 1 1 2		Alarm2 Status:	1 1 0.1 0.1 0.1 1 Depends on parameter Depends on parameter 0.1	\( \frac{1}{2} \)		
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8	ushort ushort ushort ushort ushort int int ushort ushort	1 1 1 1 1 2 2 1	s s pepends on parameter Depends on parameter %	Alarm2 Status: Alarm2 Parameter:	1	* * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·	* * * * * * * * * * * * * * * * * * *
17085 17086 17087 17088 17090 17091 17092 17094 17096 17097	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9	ushort ushort ushort ushort ushort int int ushort ushort ushort	1 1 1 1 1 2 2 2 1		Alarm2 Status:	1 1 1 0.1 0.1 1 1 Depends on parameter Depends on parameter 0.1 1		· · · · · · · · · · · · · · · · · · ·	/ / / / / / / / / / / /
17085 17086 17087 17088 17090 17091 17092 17094 17096 17097 17098 17099	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA	ushort ushort ushort ushort int int ushort ushort ushort int ushort ushort ushort	1 1 1 1 1 2 2 2 1 1	- S S S - Depends on parameter Depends on parameter %	Alarm2 Status:	1 1 1 0.1 0.1 0.1 1 Depends on parameter  Depends on parameter  1 1 1	* * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·	* * * * * * * * * * * * * * * * * * *
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17098 17099 17100 17101	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9	ushort ushort ushort ushort ushort int int ushort ushort ushort	1 1 1 1 1 2 2 2 1	s s pepends on parameter Depends on parameter %	Alarm2 Status:	1 1 1 0.1 0.1 1 1 Depends on parameter Depends on parameter 0.1 1	\( \frac{1}{2} \)	· · · · · · · · · · · · · · · · · · ·	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17098 17099 17100	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CB 42CB	ushort ushort ushort ushort int int ushort ushort ushort ushort ushort ushort ushort ushort ushort	1 1 1 1 1 2 2 2 1 1 1	S S S S S S S S S S S S S S S S S S S	Alarm2 Status:	1 1 0.1 0.1 0.1 1 Depends on parameter Depends on parameter 1 1 1 0.1 1 0.1	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17098 17099 17100 17101	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CB 42CC 42CD	ushort ushort ushort ushort int int ushort	1 1 1 1 1 2 2 1 1 1 1		Alarm2 Status:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 0.1	/ / / / / / / / / / / / / / / / / / /	· · · · · · · · · · · · · · · · · · ·	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17098 17099 17100 17101 17102	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CA 42CB 42CC 42CD 42CE	ushort ushort ushort ushort ushort int int ushort	1 1 1 1 1 1 2 2 1 1 1 1 1 1	s s s comparameter Depends on parameter % s s s s comparameter % s s s comparameter	Alarm2 Status:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 1 1 0.1 0.1	/ / / / / / / / / / / / / / / / / / /	* * * * * * * * * * * * * * * * * * *	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17098 17099 17100 17101 17102	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CB 42CC 42CD 42CF	ushort ushort ushort ushort int int ushort	1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 2		Alarm2 Status:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 0.1 Depends on parameter	/ / / / / / / / / / / / / / / / / / /	· · · · · · · · · · · · · · · · · · ·	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17090 17091 17092 17094 17096 17097 17098 17099 17100 17101 17102 17103	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CB 42CC 42CD 42CF 42CF	ushort ushort ushort ushort int int ushort	1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1	- Depends on parameter %	Alarm2 Status:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 0.1 Depends on parameter	V V V V V V V V V V V V V V V V V V V	· · · · · · · · · · · · · · · · · · ·	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17090 17090 17092 17094 17096 17097 17098 17100 17101 17102 17103 17103 17105 17107	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CC 42CC 42CC 42CC 42CD 42CF 42D1 42D3	ushort ushort ushort ushort ushort int int ushort	1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1	- Depends on parameter S S S S S S S S S S S S S S S S S S S	Alarm2 Status:   Alarm3 Status:   Alarm3 Parameter:	1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 0.1 0.1 Depends on parameter	V V V V V V V V V V V V V V V V V V V	· · · · · · · · · · · · · · · · · · ·	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17098 17100 17101 17102 17103 17105 17107 17108	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CC 42CD 42CD 42CD 42D1 42D3 42D4	ushort ushort ushort ushort ushort int int ushort	1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	- Depends on parameter % - S S S S S S S S S S S S S S S S S S S	Alarm2 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Parameter:    Alarm3 Parameter:    Alarm3 Parameter:     Alarm3 Parameter:	1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 Depends on parameter	V V V V V V V V V V V V V V V V V V V	* * * * * * * * * * * * * * * * * * *	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17098 17100 17101 17102 17103 17105 17107 17108	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CA 42CC 42CD 42CD 42CB 42CZ 42CD	ushort ushort ushort ushort ushort int int ushort ushort ushort int ushort	1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1	- Depends on parameter % - S S S S S S S S S S S S S S S S S S S	Alarm2 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Parameter:    Alarm3 Parameter:    Alarm3 Parameter:     Alarm3 Parameter:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 1 0.1 0.1 1 Depends on parameter 0.1 1 1 0.1 0.1 1 1 0.1 1 1 0.1 1 1 0.1 1 1 0.1 1 1 0.1 1 0.1 1 0.1 1 0.1 0.	V V V V V V V V V V V V V V V V V V V	* * * * * * * * * * * * * * * * * * *	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17103 17101 17102 17103 17105 17107 17108 17109	42BE 42CP 42C3 42C4 42C6 42C8 42CC 42CC 42CC 42CC 42CC 42CC 42CC	ushort us	1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	s S Depends on parameter S S S S Depends on parameter	Alarm2 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Parameter:    Alarm3 Parameter:    Alarm3 Parameter:     Alarm3 Parameter:	1 1 0.1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 1 1 0.1 0.1 1 1 Depends on parameter 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V V V V V V V V V V V V V V V V V V V	* * * * * * * * * * * * * * * * * * *	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17091 17092 17094 17096 17097 17098 17100 17101 17102 17103 17105 17107 17108	42BE 42BF 42C0 42C1 42C2 42C3 42C4 42C6 42C8 42C9 42CA 42CA 42CC 42CD 42CD 42CB 42CZ 42CD	ushort ushort ushort ushort ushort int int ushort ushort ushort int ushort	1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1	- Depends on parameter % - S S S S S S S S S S S S S S S S S S S	Alarm2 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Parameter:    Alarm3 Parameter:    Alarm3 Parameter:     Alarm3 Parameter:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 1 1 0.1 1 1 0.1 1 1 0.1 1 1 0.1 0.	V V V V V V V V V V V V V V V V V V V	* * * * * * * * * * * * * * * * * * *	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17090 17097 17098 17099 17100 17101 17102 17103 17105 17107 17108 17109 17111 17111 17111 17111	42BE 42CP 42CA 42CB 42CA 42CB 42CC 42CC 42CC 42CC 42CC 42CC 42CC	ushort int	1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 1 1 1 1 1 2 1	- Depends on parameter  S S S Depends on parameter % S S S S Depends on parameter % S Depends on parameter S S Depends on parameter S Depends on parameter	Alarm2 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Parameter:    Alarm3 Parameter:    Alarm3 Parameter:     Alarm3 Parameter:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 0.1 0.1 1 Depends on parameter	/ / / / / / / / / / / / / / / / / / /	* * * * * * * * * * * * * * * * * * *	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17091 17096 17097 17098 17099 17100 17101 17102 17103 17105 17107 17108 17109 17111 17112 17113 17114 17116	42BE 42CP 42CA 42CB 42CB 42CB 42CC 42CC 42CC 42CC 42CC	ushort us	1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 2 2 1	- Depends on parameter - S S S S S S S S S S S S S S S S S S S	Alarm2 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Parameter:    Alarm3 Parameter:    Alarm3 Parameter:     Alarm3 Parameter:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 0.1 1 Depends on parameter 0.1 Depends on parameter	V V V V V V V V V V V V V V V V V V V	\( \frac{1}{2} \)	V V V V V V V V V V V V V V V V V V V
17085 17086 17087 17088 17089 17090 17090 17097 17098 17099 17100 17101 17102 17103 17105 17107 17108 17109 17111 17111 17111 17111 17111	42BE 42CP 42CA 42CB 42CA 42CB 42CC 42CC 42CC 42CC 42CC 42CC 42CC	ushort int	1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 1 1 1 1 1 2 1	- Depends on parameter  S S S Depends on parameter % S S S S Depends on parameter % S Depends on parameter S S Depends on parameter S Depends on parameter	Alarm2 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Status:   Alarm3 Parameter:   Alarm3 Parameter:   Alarm3 Parameter:    Alarm3 Parameter:    Alarm3 Parameter:     Alarm3 Parameter:	1 1 1 0.1 0.1 0.1 1 Depends on parameter 0.1 1 1 1 0.1 0.1 0.1 0.1 0.1 1 Depends on parameter	V V V V V V V V V V V V V V V V V V V	* * * * * * * * * * * * * * * * * * *	V V V V V V V V V V V V V V V V V V V

					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				
17120	42E0	ushort	1	-	12: P Demand	1	✓	✓	✓
					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				
					76: Innet 7				
17121	42E1	int	2	ends on param	WORKING HOUR COUNTER PARAMETER LEVEL	Depends on parameter	✓	✓	✓
					Martha - Particular				
17123	42E3	ushort	1		Modbus Protocol: 0: MODBUS	1			
1,123	4203	donore	-		1: ENTBUS	-			
17124	42E4	ushort	1	_	Modbus Slave Address:	1	<b>✓</b>	·	·
1/124	4264	usnort	1	-	1 – 247	1	•	•	•
					Modbus Baud Rate:				
					0: 2400				
					1: 4800				
17125	42E5	ushort	1	bps	2: 9600 3: 19200	1	✓	✓	✓
					4: 38400				
					5: 57600				
					6: 115200				
					Modbus Parity:				
17126	42E6	ushort	1	bit	0 : None	1	✓	✓	✓
17120	4220	danore	_	Dit.	1: Odd	-			
					2: Even				
17127	42E7	ushort	1		Password Activate: 0: Passive	1	✓	✓	✓
1/12/	42L7	usiloit	1		1: Active	1	•	•	•
17128	42E8	ushort	1	-	Password	1	✓	✓	✓
17129	42E9	ushort	1		LCD Contrast Setting:	1	1	<b>/</b>	<b>√</b>
1,123	4203	donore	_		015	-	-	-	-
					LCD Backlight Setting:				
17130	42EA	ushort	1	-	0: closed 1: open	1	✓	✓	✓
					2: automatic				
					Language Setting:				
			_		0: english		,		
17131	42EB	ushort	1	-	1: turkish	1	✓	✓	✓
					2: german 3: french				
17132	42EC	ushort	1	-	5. HEICH	1	<b>✓</b>	·	·
					DST Start Month:		·	· /	· /
17133	42ED	ushort	1	month	1-12	1	•	•	•
					DST Start Week:				
					0: First				
17134	42EE	ushort	1	?	1: Second	1	✓	✓	✓
					2: Third				
					3: Fourth 4: Last				
					DST Start Day:				
					0 : SUNDAY	1			
				Ī	1: MONDAY				
17135	42EF	ushort	1	DAY	2: TUESDAY	1	✓	✓	✓
					3: WEDNESDAY	1			
					4: THURDAY 5: FRIDAY	1			
					6: SATURDAY				
17136	42F0	ushort	1	hour	DST Start Hour:	1	<b>✓</b>	<b>√</b>	<b>√</b>
17130	4210	danore	-	noui	0-23	1	•	•	•
17137	42F1	ushort	1	month	DST End Month:	1	✓	✓	✓
					1-12 DST END Week:				
					0: First				
17138	42F2	ushort	1	?	1: Second	1	1	1	1
1/138	4272	usilort	1	ſ	2: Third	1	ĺ	*	*
					3: Fourth				
					4: Last				
					DST END DAY: 0 : SUNDAY	1			
					1: MONDAY	1			
,			١		2: TUESDAY	]	,	,	,
17139	42F3	ushort	1	DAY	3: WEDNESDAY	1	~	✓	✓
					4: THURDAY				
					5: FRIDAY				
					6: SATURDAY DST End Hour:				
17140	42F4	ushort	1	hour	0-23	1	<b>✓</b>	✓	✓
					Tariff Activate:				
17141	42F5	ushort	1	-	0: Disable	1	✓	✓	✓
				<u> </u>	1: Enable				

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

Address Format Word Unit Remarks Multiplier MPR25S-22 MPR26S-21 MPR27S-23								
	Forma	ti i	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23

_									
6000	1770	ushort	1	DAY	DAY	1	✓	✓	/
					1-31				
6001	1771	ushort	1	month	MONTH 1-12	1	<b>✓</b>	<b>~</b>	✓
6002	1772	ushort	1	Yıl	YEAR 2000-2199	1	✓	✓	✓
6003	1773	ushort	1	hour	HOUR 0-23	1	<b>✓</b>	<b>✓</b>	✓
6004	1774	ushort	1	MINUTE	MINUTES 0-59	1	✓	✓	✓
6005	1775	ushort	1	Second	SECONDS 0-59	1	<b>✓</b>	<b>✓</b>	✓
					0 : SUNDAY				
					1: MONDAY				
					2: TUESDAY				
6006	1776	ushort	1	DAY	3: WEDNESDAY	1	✓	✓	✓
					4: THURDAY				
					5: FRIDAY				
					6: SATURDAY				
6007	1777	short	1	-	-24 +24		✓	✓	✓
					0: DISABLE				
6008	1778	ushort	1		1: EUROPE	1	✓	✓	✓
0000	1770	usiloit	-		2: AMERICA	_			-
					3: MANUAL				
6009	1779	ushort	1	month	DST Start Month:	1	✓	✓	✓
			_		1-12		The state of the s		, i
					DST Start Week:				
					0: First				
6010	177A	ushort	1	week	1: Second	1	✓	/	/
0010	1///	usiloit	-	WCCK	2: Third	<u> </u>			
					3: Fourth				
					4: Last				
					DST Start DAY:				
					0 : SUNDAY				
					1: MONDAY				
6011	177B	ushort	1	DAY	2: TUESDAY	1	✓	✓	✓
0011	1//6	usiloit	1	DAT	3: WEDNESDAY	1	•	·	•
					4: THURDAY				
					5: FRIDAY				
					6: SATURDAY				
6012	177C	ushort	1	hour	DST Start Hour:	1	✓	✓	✓
0012	1770	usiloit		noui	0-23	1			-
6013	177D	ushort	1	month	DST End Month:	1	✓	✓	✓
0013	1770	usiloit	1	month	1-12	1	·	·	•
					DST END Week:				
					0: First				
6014	177E	ushort	1	week	1: Second	1	✓	✓	✓
0014	1//L	usiloit	1	week	2: Third	1	•	·	•
					3: Fourth				
					4: Last				
					DST END DAY:				
					0 : SUNDAY				
					1: MONDAY				
6015	177F	ushort	1	DAY	2: TUESDAY	1	/	/	/
0013	1///	usnoit	1	DAT	3: WEDNESDAY	1	*	*	*
					4: THURDAY				
					5: FRIDAY				
					6: SATURDAY				
6016	1780		1	h	DST End Hour:	1	1	1	1
0010	1/80	ushort	1	hour	0-23	1	*	*	*
6017	1781	ushort	1	-	DST_STATUS	1	<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						

				<del>-</del>					
	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
22000	55F0	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>
22001	55F1	ushort	1	-	Tariff Number Settings : 0-8	1	<b>~</b>	~	<b>~</b>
22002	55F2	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>
22003	55F3	ushort	1	•	Tariff Number Settings : - 0-8		<b>~</b>	<b>~</b>	✓
22004	55F4	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>
22005	55F5	ushort	1	-	Tariff Number Settings : 0-8	1	✓	✓	✓
22006	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>
22007	55F7	ushort	1	-	Tariff Number Settings : 0-8	1	✓	<b>✓</b>	✓
22008	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>
22009	55F9	ushort	1	-	Tariff Number Settings : 0-8	1	✓	~	✓
22010	55FA	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>	*	✓
22011	55FB	ushort	1	-	Tariff Number Settings : 0-8	1	✓	<b>√</b>	✓
22012	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>
22013	55FD	ushort	1	-	Tariff Number Settings : 0-8	1	✓	✓	✓
22014	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>	<b>√</b>

22015 55FF ushort 1 - Tariff Number Settings: 1 \( \sqrt{} \sqrt{} \sqrt{} \sqrt{} \)

		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	MPR25S-22	MPR26S-21	MPR27S-23
9000	2328	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>	~
9001	2329	ushort	1	-	Tariff Number Settings : 0-8	1	1	<b>~</b>	·
9002	232A	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>
9003	232B	ushort	1	-	Tariff Number Settings : 0-8	1	✓	✓	~
9004	232C	ushort	1	Hour/Minutes	tart Hour and Start Minutes Settings:  Hour * 256 + Minute  Minute Value: Register  Value % 256		>	>	~
9005	232D	ushort	1	-	Tariff Number Settings : 1		✓	✓	✓
9006	232E	ushort	1	Hour/Minutes	Start Hour and Start Minutes Settings: Hour * 256 + Minute	Hour Value: Register Value / 256 Minute Value: Register Value % 256	1	<b>~</b>	<b>~</b>
9007	232F	ushort	1	-	Tariff Number Settings : 0-8	1	✓	<b>✓</b>	✓
9008	2330	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>	~
9009	2331	ushort	1	-	Tariff Number Settings : 0-8	1	✓	<b>✓</b>	✓
9010	2332	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>	~
9011	2333	ushort	1	-	Tariff Number Settings : 0-8	1	✓	✓	✓
9012	2334	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>	~
9013	2335	ushort	1	-	Tariii Number Settings :	1	✓	<b>✓</b>	✓
9014	2336	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>	~
9015	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	MPR25S-22	MPR26S-21	MPR27S-23
10000	2710	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>
10001	2711	ushort	1	,	Tariff Number Settings :  0-8	1	1	~	<b>√</b>
10002	2712	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>	~	4
10003	2713	ushort	1	-	Tariff Number Settings : 0-8	1	✓	~	✓
10004	2714	ushort	1	Hour/Minutes	Hour Value: Register Value start Hour and Start Minutes Settings: / 256 Hour * 256 + Minute Minutes Negister Value % 256 Value % 256		<b>*</b>	<b>*</b>	<b>~</b>
10005	2715	ushort	1	-	Tariff Number Settings : 1		✓	✓	
10006	2716	ushort	1	Hour/Minutes	Hour Value: Register Value / 256 Hour * 256 + Minute  Minute Value: Register Value & 256		<b>~</b>	*	<b>√</b>
10007	2717	ushort	1	-	Tariff Number Settings : 0-8	1	✓	~	✓
10008	2718	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>
10009	2719	ushort	1	-	Tariff Number Settings : 0-8	1	✓	✓	✓
10010	271A	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>
10011	271B	ushort	1	-	Tariff Number Settings : 0-8	1	✓	~	✓
10012	271C	ushort	1	Hour/Minutes	Hour Value: Register Value  Start Hour and Start Minutes Settings:  Hour * 256 + Minute  Minute Value: Register  Value * 256		<b>~</b>	<b>~</b>	<b>~</b>
10013	271D	ushort	1	-	Tariff Number Settings :	1	✓	✓	<b>✓</b>
10014	271E	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>

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

MPR25S-22	MADDOCC 24	
·	IVIPR203-21	MPR27S-23
	· ·	1
*	*	·
r 🗸	<b>√</b>	~
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	1	<i>'</i>
- /	· /	
✓ ✓ ✓		
_	✓	<b>✓</b>
· /		
	· · · · · · · · · · · · · · · · · · ·	

Same parameters continous as Alarm 2 and Alarm3

20031	4E3F	ushort	1		NAMEN ON UDDRY THERINDIC GLUSS: 0x0001: VINI, 0x0012: VINI, 0x0013: VIN1 + VIN2 0x0011: VINI, 0x0012: VINI, 0x0013: VINI + VIN3 0x0011: VINI, 0x0012: VINI + VIN3, 0x0015: VINI + VIN3 0x0017: VINI + VIN2 + VIN3, 0x0013: VINI 0x0017: VINI + VIN2 + VIN3, 0x0013: VINI 0x0017: VINI + VIN12, 0x0013: VINI + VINI 0x0027: VINI + VINI + VINI + VINI 0x0038: IL1 + VINI, 0x0027: VINI + VINI + VINI 0x0036: IL2 + INI, 0x0037: IL1 + IIL2 + IL3 0x0038: IL4 0x0036: IL4 0x0040: IN 0x0040: IN 0x0040: IN 0x0051: P1, 0x0052: P2, 0x0053: P1 + P2, 0x0054: P3, 0x0055: P1 + P3 0x0056: P2 + P3, 0x0057: P1 + P2 + P3, 0x0058: P4 0x0056: P2 + P3, 0x0057: P1 + P2 + P3, 0x0058: P4 0x0056: P2 + P3, 0x0057: P1 + P2 + P3, 0x0058: P4 0x0060: PSUM EXP, 0x00608: PSUM 0x0071: Ox10 + Ox0057: Ox10 + Ox	1	•	*	·
20032	4E40	int	2	Depends on parameter.	Alarm 4 on upper threshold max. value	Depends on parameter	✓	✓	<b>✓</b>
20034	4E42	uint	2	s s	Alarm 4 Duration	1	<b>✓</b>	<b>√</b>	✓

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

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
8016	1F50	uint	2	Unix Time	Start Time	1	<b>/</b>	<b>√</b>	<b>~</b>
8018	1F52	uint	2	Unix Time	End Time	1	✓	✓	✓
8020	1F54	uint	2	Second	Duration	1	<b>✓</b>	<	✓
8022	1F56	ushort	1	?	Cycle	?	<b>✓</b>	<	✓
8023	1F57	ushort	1	-	Туре	1	<b>✓</b>	<	✓
8024	1F58	ushort	1	-	Source	1	<b>✓</b>	<	✓
8025	1F59	ushort	1		Param	1	<b>✓</b>	<	✓
8026	1F5A	int	2	Depends on parameter	High	Depends on parameter	✓	~	✓
8028	1F5C	int	2	Depends on parameter	Low	Depends on parameter	✓	<b>~</b>	✓
8030	1F5E	int	2	Depends on	High Value	Depends on parameter	✓	<b>~</b>	<b>~</b>
8032	1F60	int	2	Depends on parameter	Low Value	Depends on parameter	<b>~</b>	<b>~</b>	<b>~</b>
8034	1F62	ushort	1	-	Index	1	✓	✓	✓

Supported Functions	Start Address	Register Counts	
Write holding registers	8000	2	

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23			
					Record Index:		<	✓	<b>✓</b>			
8034	1F40	short	ort 1	nort 1	1	-	-1 : Next Record	-	<	✓	<b>✓</b>	
					1-500: Record Index		<b>~</b>	✓	<b>✓</b>			

		RESET
Supported Functions	Start Address	Register Counts
Write holding registers	14000	1

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
14000	36B0	ushort	1	-	Reset Action Code:  0x01: MAX  0x02: MIN  0x04: DEMAND  0x08: MAX DEMAND  0x10: ENERGY  0x20: TARIFF ENERGY  0x40: JENERATOR ENERGY  0x80: PULSE COUNTER  0x100: WORKING HOUR	·	<b>~</b>	<b>&gt;</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	MPR25S-22	MPR26S-21	MPR27S-23			
					Profile Records Enable:							
21000	5208	ushort	1	-	0: Disable	1	✓	✓	✓			
					1: Enable							
					Profile Synchronizing:							
21001	5209	ushort	1	-	0: Disable	1	✓	✓	✓			
					1: Enable							
					Profile Records Record Time:							
					0: 1 Minute							
					1: 5 Minutes							
21002	520A	ushort	1	Minutes	2: 10 Minutes	1	<b>/</b>	/	·			
21002	320A	usiloit	-	williutes	3: 15 Minutes	1	·	-	-			
			1			1 !		4: 20 Minutes			1	
					5: 30 Minutes							
					6: 60 Minutes							
21003	520B	ushort	1	-	Current Records Enable:	1	✓	<b>✓</b>	✓			
					Current Synchronizing:							
21004	520C	ushort	1	-	0: Disable	1	✓	✓	✓			
					1: Enable							

_									
21005	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	<b>√</b>	<b>√</b>	~
21006	520E	ushort	1	-	Voltage Records Enable: 0: Disable 1: Enable	1	<b>~</b>	<b>~</b>	4
21007	520F	ushort	1	-	Voltage Synchronizing: 0: Disable 1: Enable	1	<b>~</b>	<	<b>~</b>
21008	5210	ushort	1	Minutes	Voltage Records Record Time: 0: 1 Minute 1: 5 Minute 2: 10 Minutes 2: 10 Minutes 4: 20 Minutes 5: 30 Minutes 6: 60 Minutes	1	<b>~</b>	<b>√</b>	<b>~</b>
21009	5211	ushort	1	-	Power Records Enable: 0: Disable 1: Enable	1	✓	✓	<b>✓</b>
21010	5212	ushort	1	-	Power Synchronizing: 0: Disable 1: Enable	1	<b>*</b>	<b>~</b>	<b>~</b>
21011	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	<b>~</b>	<b>~</b>	<b>~</b>
21012	5214	ushort	1	-	THD Records Enable: 0: Disable 1: Enable	1	<b>~</b>	<b>~</b>	<b>~</b>
21013	5215	ushort	1	-	THD Synchronizing: 0: Disable 1: Enable	1	<b>*</b>	<b>~</b>	<b>~</b>
21014	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 5: 30 Minutes	1	<b>*</b>	<b>*</b>	<b>√</b>

		Records Time Stamp Register
Supported Functions	Start Address	Register Counts
Write multiple registers	21100	10

The index of record, which is closest to the date written in this register will be written in record index register at address 21200-21209.

If 0xFFFFFFFF is written, the last index record will be saved in record index register at address 21200-21209

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
21100	526C	uint	2	Unix Time	Profile Records Time Stamp	1	✓	✓	<b>✓</b>
21102	526E	uint	2	Unix Time	Voltage Records Time Stamp	1	<b>✓</b>	<b>✓</b>	<
21104	5270	uint	2	Unix Time	Current Records Time Stamp	1	✓	✓	<
21106	5272	uint	2	Unix Time	Power Records Time Stamp	1	✓	<b>✓</b>	<
21108	5274	uint	2	Unix Time	THD Records Time Stamp	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	MPR25S-22	MPR26S-21	MPR27S-23
21200	52D0	uint	2	-	Profile Records Index Register	1	✓	<b>✓</b>	✓
21202	52D2	uint	2	-	Voltage Records Index Regiter	1	✓	<	✓
21204	52D4	uint	2	-	Current Records Index Register	1	✓	<b>✓</b>	<b>✓</b>
21206	52D6	uint	2	-	Power Records Index Register	1	✓	✓	✓
21208	52D8	uint	2	-	THD Records Index Regsiter	1	<b>~</b>	<b>✓</b>	✓

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

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
23000	59D8	uint	2	Unix Time	Record Start Time	1	✓	✓	<b>✓</b>
23002	59DA	uint	2	Unix Time	Record End Time	1	<b>✓</b>	<b>✓</b>	<b>✓</b>
23004	59DC	uint	2	W	Consumed Active Energy	1	<b>✓</b>	<b>✓</b>	<b>√</b>
23006	59DE	uint	2	VAR	Q1 Reactive Energy	1	<b>~</b>	<	<b>~</b>
23008	59E0	uint	2	VAR	Q4 Reactive Energy	1	~	<	<b>✓</b>
23010	59E2	uint	2	VA	Consumed Apparent Energy	1	~	<	<b>~</b>
23012	59E4	uint	2	W	Delivered Active Energy	1	~	<	<b>✓</b>
23014	59E6	uint	2	VAR	Q2 Reactive Energy	1	<	<	<b>✓</b>
23016	59E8	uint	2	VAR	Q3 Reactive Energy	1	~	<	<b>~</b>
23018	59EA	uint	2	VA	Delivered Apparent Energy	1	<	<	<b>✓</b>
23020	59EC	uint	2	W	Consumed Active Energy Tariff Generator	1	~	<	<b>✓</b>
23022	59EE	ushort	1	-	Pulse Counter 1	1	<b>✓</b>	<b>✓</b>	<b>✓</b>
23023	59EF	ushort	1	-	Pulse Counter 2	1	~	<	<b>✓</b>
23024	59F0	ushort	1	-	Pulse Counter 3	1	<b>✓</b>	<b>✓</b>	<b>~</b>
23025	59F1	ushort	1	-	Pulse Counter 4	1	<b>✓</b>	<b>✓</b>	✓
23026	59F2	uint	2	-	Record Index	1	<b>✓</b>	<b>✓</b>	<b>√</b>

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

Address Hex Format Word Counts Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23

24000	5DC0	uint	2	Unix Time	Record End Time	1	✓	✓	✓
24002	5DC2	uint	2	Unix Time	Record Start Time	1	<	<b>✓</b>	✓
24004	5DC4	uint	2	Α	Average Current IL1	0.001	<	<b>✓</b>	✓
24006	5DC6	uint	2	Α	Average Current IL2	0.001	<	<b>✓</b>	✓
24008	5DC8	uint	2	A	Average Current IL3	0.001	<b>✓</b>	<b>✓</b>	✓
24010	5DCA	uint	2	Α	Average Current ILN	0.001	<	<b>✓</b>	✓
24012	5DCC	uint	2	Α	Max Current IL1	0.001	<	<b>✓</b>	✓
24014	5DCE	uint	2	Α	Max Current IL2	0.001	<	<b>✓</b>	✓
24016	5DD0	uint	2	Α	Max Current IL3	0.001	<	<b>✓</b>	✓
24018	5DD2	uint	2	Α	Max Current ILN	0.001	<b>✓</b>	<b>✓</b>	✓
24020	5DD4	uint	2	A	Min Current IL1	0.001	✓	✓	✓
24022	5DD6	uint	2	Α	Min Current IL2	0.001	<	<b>✓</b>	✓
24024	5DD8	uint	2	Α	Min Current IL3	0.001	<b>✓</b>	<b>✓</b>	✓
24026	5DDA	uint	2	Α	Min Current ILN	0.001	<b>✓</b>	✓	✓
24028	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	MPR25S-22	MPR26S-21	MPR27S-23
25000	61A8	uint	2	-	Record End Time	1	<b>✓</b>	_	· ·
25002	61AA	uint	2	Unix Time	Record Start Time	1	<b>✓</b>	<b>4</b>	<b>√</b>
25004	61AC	uint	2	V	Average Voltage L1-N	0.1	<b>✓</b>	<b>√</b>	✓
25006	61AE	uint	2	V	Average Voltage L2-N	0.1	1	✓	✓
25008	61B0	uint	2	V	Average Voltage L3-N	0.1	<b>✓</b>	<b>✓</b>	✓
25010	61B2	uint	2	V	Average Voltage L4-N	0.1			
25012	61B4	uint	2	V	Average Voltage L1-L2	0.1	1	✓	✓
25014	61B6	uint	2	V	Average Voltage L2-L3	0.1	✓	<b>✓</b>	✓
25016	61B8	uint	2	V	Average Voltage L3-L1	0.1	✓	<b>✓</b>	✓
25018	61BA	uint	2	Hz	Average Frequency	0.01	✓	<b>✓</b>	✓
25020	61BC	uint	2	V	Max Voltage L1-N	0.1	<b>✓</b>	<	✓
25022	61BE	uint	2	V	Max Voltage L2-N	0.1	✓	<b>✓</b>	✓
25024	61C0	uint	2	V	Max Voltage L3-N	0.1	✓	<b>✓</b>	✓
25026	61C2	uint	2	V	Max Voltage L4-N	0.1			
25028	61C4	uint	2	V	Max Voltage L1-L2	0.1	<b>✓</b>	<	✓
25030	61C6	uint	2	V	Max Voltage L2-L3	0.1	<b>✓</b>	<	✓
25032	61C8	uint	2	V	Max Voltage L3-L1	0.1	✓	✓	✓
25034	61CA	uint	2	Hz	Max Frequency	0.01	<b>✓</b>	<b>✓</b>	✓
25036	61CC	uint	2	V	Min Voltage L1-N	0.1	✓	✓	✓
25038	61CE	uint	2	V	Min Voltage L2-N	0.1	✓	✓	✓
25040	61D0	uint	2	V	Min Voltage L3-N	0.1	✓	✓	✓
25042	61D2	uint	2	V	Min Voltage L4-N	0.1			
25044	61D4	uint	2	V	Min Voltage L1-L2	0.1	✓	✓	✓
25046	61D6	uint	2	V	Min Voltage L2-L3	0.1	✓	<b>✓</b>	✓
25048	61D8	uint	2	V	Min Voltage L3-L1	0.1	✓	✓	✓
25050	61DA	uint	2	Hz	Min Frequency	0.01	<b>✓</b>	✓	✓
25052	61DC	uint	2	-	Record Index	1	<b>✓</b>	✓	✓

		Power Records						
Supported Functions	Start Address	Register Counts						
Read holding registers	26000	64						

	Address	Format	Word	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
	Hex		Counts			·			
26000	6590	uint	2	Unix Time	Record End Time	1	· /	· ·	· /
26002	6592	uint	2	Unix Time	Record Start Time	1	<i>'</i>	· ·	· /
26004	6594	float	2	W	Total Import Active Power	1			
26006	6596	float	2		Total Export Active Power	1	✓	✓	✓
26008	6598	float	2	VAR	Quadrant 1 average total reactive power	1	✓	· ·	✓
26010	659A	float	2	VAR	Quadrant 2 average total reactive power	1	✓	✓	✓
26012	659C	float	2		Quadrant 3 average total ractive power	1	✓	✓	✓
26014	659E	float	2		Quadrant 4 average total reactive power	1	<b>✓</b>	✓	✓
26016	65A0	float	2	VA	Average total import apparent power	1	✓	✓	✓
26018	65A2	float	2	W	Average total export apparent power	1	✓	✓	✓
26020	65A4	uint	2	-	Average total inductive import cosphi value	0.001	✓	✓	✓
26022	65A6	uint	2	-	Average total capacitive import cosphi value	0.001	✓	<b>✓</b>	✓
26024	65A8	uint	2	,	Average total inductive export cosphi value	0.001	✓	<b>~</b>	✓
26026	65AA	uint	2	-	Average total capacitive export cosphi value	0.001	<b>✓</b>	✓	✓
26028	65AC	uint	2	-	Average total PF	0.001	<b>✓</b>	<b>✓</b>	✓
26030	65AE	float	2	W	Max. Total import active power	1	<b>✓</b>	<b>✓</b>	✓
26032	65B0	float	2	W	Max. Total export active power	1	<b>✓</b>	<b>✓</b>	✓
26034	65B2	float	2	VAR	Max. Total Q1 Reactive Power	1	<b>✓</b>	<b>✓</b>	✓
26036	65B4	float	2	VAR	Max. Total Q2 Reactive Power	1	✓	✓	✓
26038	65B6	float	2	VAR	Max. Total Q3 Reactive Power	1	<b>✓</b>	✓	✓
26040	65B8	float	2	VAR	Max. Total Q4 Reactive Power	1	✓	✓	✓
26042	65BA	float	2	VA	Max. Total Import Apparent Power	1	<b>✓</b>	<	✓
26044	65BC	float	2	VA	Max. Total Export Apparent Power	1	✓	✓	✓
26046	65BE	float	2	W	Min. Total Import Active Power	1	<b>✓</b>	<	✓
26048	65C0	float	2	W	Min. Total Export Active Power	1	1	✓	✓
26050	65C2	float	2	VAR	Min. Total Q1 Reactive Power	1	<b>✓</b>	<	✓
26052	65C4	float	2	VAR	Min. Total Q2 Reactive Power	1	<b>✓</b>	✓	✓
26054	65C6	float	2	VAR	Min. Total Q3 Reactive Power	1	<b>/</b>	✓	✓
26056	65C8	float	2	VAR	Min. Total Q4 Reactive Power	1	<b>√</b>	<b>√</b>	✓
26058	65CA	float	2	VA	Min. Total Import Apparent Power	1	<b>√</b>	✓	✓
26060	65CC	float	2	VA	Min. Total Export Apparent Power	1	<b>✓</b>	✓	<b>√</b>
26062	65CE	uint	2	-	Record Index	1	1	<b>√</b>	<b>4</b>

## Supported Functions Start Address Register Counts Read holding registers 27000 60

	Address Hex	Format	Word Counts	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
27000	6978	uint	2	-	Record Index	1	✓	<b>✓</b>	~
27002	697A	uint	2	Unix Time	Record Time	1	✓	<b>✓</b>	✓
27004	697C	uint	2	%	Average Total Harmonic Distorsion VL1	0.1	✓	<	✓
27006	697E	uint	2	%	Average Total Harmonic Distorsion VL2	0.1	<b>~</b>	<b>✓</b>	✓
27008	6980	uint	2	%	Average Total Harmonic Distorsion VL3	0.1	✓	<b>✓</b>	✓
27010	6982	uint	2	%	Average Total Harmoic Distorsion VLL12	0.1	✓	<	✓
27012	6984	uint	2	%	Average Total Harmoic Distorsion VLL23	0.1	✓	<	✓
27014	6986	uint	2	%	Average Total Harmoic Distorsion VLL31	0.1	✓	<	✓
27016	6988	uint	2	%	Average Total Harmonic Distorsion IL1	0.1	✓	<	✓
27018	698A	uint	2	%	Average Total Harmonic Distorsion IL2	0.1	✓	<	✓
27020	698C	uint	2	%	Average Total Harmonic Distorsion IL3	0.1	✓	<	✓
27022	698E	uint	2	%	Max Total Harmonic Distorsion VL1	0.1	✓	~	✓
27024	6990	uint	2	%	Max Total Harmonic Distorsion VL2	0.1	✓	~	✓
27026	6992	uint	2	%	Max Total Harmonic Distorsion VL3	0.1	✓	<	✓
27028	6994	uint	2	%	Max Total Harmoic Distorsion VLL12	0.1	✓	<	✓
27030	6996	uint	2	%	Max Total Harmoic Distorsion VLL23	0.1	<b>~</b>	<b>✓</b>	✓
27032	6998	uint	2	%	Max otal Harmoic Distorsion VLL31	0.1	<b>~</b>	<b>✓</b>	✓
27034	699A	uint	2	%	Max Total Harmonic Distorsion IL1	0.1	✓	✓	✓

27036	699C	uint	2	%	Max Total Harmonic Distorsion IL2	0.1		1	1
							•	•	•
27038	699E	uint	2	%	Max Total Harmonic Distorsion IL3	0.1	✓	✓	✓
27040	69A0	uint	2	%	Min Total Harmonic Distorsion VL1	0.1	<b>~</b>	<b>✓</b>	✓
27042	69A2	uint	2	%	Min Total Harmonic Distorsion VL2	0.1	✓	✓	✓
27044	69A4	uint	2	%	Min Total Harmonic Distorsion VL3	0.1	✓	✓	✓
27046	69A6	uint	2	%	Min Total Harmoic Distorsion VLL12	0.1	✓	✓	✓
27048	69A8	uint	2	%	Min Total Harmoic Distorsion VLL23	0.1	✓	~	<b>✓</b>
27050	69AA	uint	2	%	Min Total Harmoic Distorsion VLL31	0.1	<b>~</b>	<b>✓</b>	<b>✓</b>
27052	69AC	uint	2	%	Min Total Harmonic Distorsion IL1	0.1	✓	~	<b>✓</b>
27054	69AE	uint	2	%	Min Total Harmonic Distorsion IL2	0.1	✓	~	<b>✓</b>
27056	69B0	uint	2	%	Min Total Harmonic Distorsion IL3	0.1	<b>~</b>	<b>✓</b>	<b>✓</b>
27058	69B2	uint	2	-	Record Index	1	✓	<b>~</b>	<b>✓</b>

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

	Address	Format	Word	Unit	Remarks	Multiplier	MPR25S-22	MPR26S-21	MPR27S-23
	Hex		Counts						
60416	EC00	ushort	1	-	Device ID	1	✓	✓	✓
60417	EC01	ushort	1	-	Device ID && Versiyon No	1	✓	✓	✓
60418	EC02	uint	2		Serial Number	1	✓	<b>~</b>	✓
60420	EC04	uint	2	-	Software Version	1	✓	✓	✓
60422	EC06	uint	2	-	Hardware Version	1	<b>✓</b>	✓	✓
60424	EC08	uint	2	-	Modbus Table Version	1	<b>✓</b>	<b>✓</b>	✓
60426	EC0A	uint	2	-	Boot loader version	1	<b>✓</b>	✓	✓
60428	EC0C	uint	2	Unix Time	Fabrication Date	1	<b>✓</b>	✓	✓
60430	EC0E	uint	2	Unix Time	Calibration Date	1	<b>✓</b>	<b>✓</b>	✓