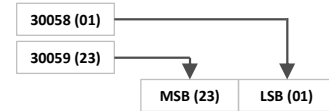


Modbus Parameters		Default
Mode:	RTU (LSB first, apply address offset of +1 for Function 3 Holding Registers)	
Baudrate:	300 / 600 / 1200 / 2400 / 4800 / 9600 / 19200 bps	9600
Data Bit:	8	
Stop Bits:	1 or 2	1
Parity:	None / Odd / Even	None
Functions:	3 / 4	
Scan Rate:	≤ 100mS	

**FLOAT REVERSE WORD Data-structure example:**

Start Register: 30058 - Total Active Energy (System) kWh  
 Data Registers: 30058 = LSB (01), 30059 = MSB (23)  
 FLOAT ordering = MSB.LSB (2301)



**Register List**

Starting Address (Decimal)	Starting Register (Hex)	Parameter	Unit	Function	Read / Write	Length	Data structure	Range / Value	Default
30000	0x00	Voltage V1-N	V	3	R	2	FLOAT REVERSE WORD	-	-
30002	0x02	Voltage V2-N	V	3	R	2	FLOAT REVERSE WORD	-	-
30004	0x04	Voltage V3-N	V	3	R	2	FLOAT REVERSE WORD	-	-
30006	0x06	Average Voltage L-N	V	3	R	2	FLOAT REVERSE WORD	-	-
30008	0x08	Voltage V1-2	V	3	R	2	FLOAT REVERSE WORD	-	-
30010	0x0A	Voltage V2-3	V	3	R	2	FLOAT REVERSE WORD	-	-
30012	0x0C	Voltage V3-1	V	3	R	2	FLOAT REVERSE WORD	-	-
30014	0x0E	Average Voltage L-L	V	3	R	2	FLOAT REVERSE WORD	-	-
30016	0x10	Current I1	A	3	R	2	FLOAT REVERSE WORD	-	-
30018	0x12	Current I2	A	3	R	2	FLOAT REVERSE WORD	-	-
30020	0x14	Current I3	A	3	R	2	FLOAT REVERSE WORD	-	-
30022	0x16	Average Current	A	3	R	2	FLOAT REVERSE WORD	-	-
30024	0x18	kW1	kW	3	R	2	FLOAT REVERSE WORD	-	-
30026	0x1A	kW2	kW	3	R	2	FLOAT REVERSE WORD	-	-
30028	0x1C	kW3	kW	3	R	2	FLOAT REVERSE WORD	-	-
30030	0x1E	kVA1	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30032	0x20	kVA2	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30034	0x22	kVA3	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30036	0x24	kVAr1	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30038	0x26	kVAr2	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30040	0x28	kVAr3	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30042	0x2A	Total kW	kW	3	R	2	FLOAT REVERSE WORD	-	-
30044	0x2C	Total kVA	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30046	0x2E	Total kVAr	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30048	0x30	PF1		3	R	2	FLOAT REVERSE WORD	-	-
30050	0x32	PF2		3	R	2	FLOAT REVERSE WORD	-	-
30052	0x34	PF3		3	R	2	FLOAT REVERSE WORD	-	-
30054	0x36	Average PF		3	R	2	FLOAT REVERSE WORD	-	-
30056	0x38	Frequency	Hz	3	R	2	FLOAT REVERSE WORD	-	-
30058	0x3A	kWh	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30060	0x3C	kVAh	kVAh	3	R	2	FLOAT REVERSE WORD	-	-
30062	0x3E	kVArh	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30064	0x40	kW Max Active Power	kW	3	R	2	FLOAT REVERSE WORD	-	-
30066	0x42	kW Min Active Power	kW	3	R	2	FLOAT REVERSE WORD	-	-
30068	0x44	kVAr Max Reactive Power	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30070	0x46	kVAr Min Reactive Power	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30072	0x48	kVA Max Apparent Power	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30122	0x7A	Neutral Current THD	%	3	R	2	FLOAT REVERSE WORD	-	-
30124	0x7C	THD of Voltage V1N	%	3	R	2	FLOAT REVERSE WORD	-	-
30126	0x7E	THD of Voltage V2N	%	3	R	2	FLOAT REVERSE WORD	-	-
30128	0x80	THD of Voltage V3N	%	3	R	2	FLOAT REVERSE WORD	-	-
30130	0x82	THD of Voltage V1-2	%	3	R	2	FLOAT REVERSE WORD	-	-
30132	0x84	THD of Voltage V2-3	%	3	R	2	FLOAT REVERSE WORD	-	-
30134	0x86	THD of Voltage V3-1	%	3	R	2	FLOAT REVERSE WORD	-	-
30136	0x88	THD of Current I1	%	3	R	2	FLOAT REVERSE WORD	-	-
30138	0x8A	THD of Current I2	%	3	R	2	FLOAT REVERSE WORD	-	-
30140	0x8C	THD of Current I3	%	3	R	2	FLOAT REVERSE WORD	-	-
30684	0x2AC	Serial No.		3	R	2	HEX	-	-
30692	0x2B4	Max I1 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30694	0x2B6	Max I2 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30696	0x2B8	Max I3 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30698	0x2BA	Max Average Current Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30700	0x2BC	Phase Sequence Indicator		3	R	2	INT	0: Clockwise 1: Anticlockwise 2: Invalid	-
30702	0x2BE	Existing Max Active Power	kW	3	R	2	FLOAT REVERSE WORD	-	-
30704	0x2C0	Existing Min Active Power	kW	3	R	2	FLOAT REVERSE WORD	-	-
30706	0x2C2	Existing Max Reactive Power	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30708	0x2C4	Existing Min Reactive Power	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30710	0x2C6	Existing Max Apparent Power	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30712	0x2C8	Existing Max I1 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30714	0x2CA	Existing Max I2 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30716	0x2CC	Existing Max I3 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30718	0x2CE	Existing Max Avg. Current Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
40000	0x00	Password		4	R/W	1	INT	0000 - 9998	1000
40001	0x01	Network Selection		4	R/W	1	INT	0: 3P4W 1: 3P3W 2: 1P2W-P1 3: 1P2W-P2 4: 1P2W-P3	0
40002	0x02	CT Secondary	A	4	R/W	1	INT	1 or 5	5

Starting Address (Decimal)	Starting Register (Hex)	Parameter	Unit	Function	Read / Write	Length	Data structure	Range / Value	Default
40003	0x03	CT Primary	A	4	R/W	1	INT	CT Sec = 1: 1 - 10000 CT Sec = 5: 5 - 10000	5
40004	0x04	PT Secondary	V	4	R/W	1	INT	100 - 500	350
40005	0x05	PT Primary	V	4	R/W	2	INT	100 - 500k	350
40007	0x07	Slave ID		4	R/W	1	INT	1 - 255	1
40008	0x08	Baud Rate	bps	4	R/W	1	INT	0: 300 1: 600 2: 1200 3: 2400 4: 4800 5: 9600 6: 19200	5
40009	0x09	Parity		4	R/W	1	INT	0: None 1: Odd 2: Even	0
40010	0x0A	Stop Bit		4	R/W	1	INT	0: 1 1: 2	0
40011	0x0B	Backlight OFF	sec	4	R/W	1	INT	0 - 7200	0
40012	0x0C	Factory Default		4	W	1	INT	1: Set to factory setting range	-
40013	0x0D	Reset kWh		4	W	1	INT	1: Reset total active energy	-
40014	0x0E	Reset kVAh		4	W	1	INT	1: Reset total apparent energy	-
40015	0x0F	Reset kVArh		4	W	1	INT	1: Reset total reactive energy	-
40016	0x10	Auto Mode Pages		4	R/W	1	INT	1 - 21	21
40017	0x11	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	1
40018	0x12	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	2
40019	0x13	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	3
40020	0x14	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	4
40021	0x15	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	5
40022	0x16	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	6
40023	0x17	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	7
40024	0x18	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	8
40025	0x19	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	9
40026	0x1A	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	10
40027	0x1B	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	11
40028	0x1C	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	12
40029	0x1D	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	13
40030	0x1E	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	14
40031	0x1F	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	15
40032	0x20	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	16
40033	0x21	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	17
40034	0x22	Demand Interval Method		4	R/W	1	INT	0: Sliding 1: Fixed	0
40035	0x23	Demand Interval Duration		4	R/W	1	INT	1 - 30	15
40036	0x24	Demand Interval Length	min	4	R/W	1	INT	1 - 30	1
40037	0x25	Reset Max kW		4	W	1	INT	1: Reset max active power	-
40038	0x26	Reset Min kW		4	W	1	INT	1: Reset min active power	-
40039	0x27	Reset Max kVA		4	W	1	INT	1: Reset max reactive power	-
40040	0x28	Reset Min kVA		4	W	1	INT	1: Reset min reactive power	-
40041	0x29	Reset Max kVA		4	W	1	INT	1: Reset max apparent power	-
40054	0x36	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	18
40055	0x37	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	19
40057	0x39	Pulse Duration	sec	4	R/W	1	INT	0.1 - 2.0	0.1
40058	0x3A	Pulse Weight	kWh	4	R/W	1	INT	0.01 - 99.99	0.1
40059	0x3B	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	20
40060	0x3C	Page Address Sequence		4	R/W	1	INT	1-21 / 1-First Page; 21-Last Page	21
40064	0x40	Reset Max Current		4	W	1	INT	1: Reset max current	-
40070	0x46	Change Endian		4	R/W	1	INT	0: Little Endian (2301) 1: Big Endian (0123)	0

Registers of Individual Harmonics Distortion																													
30xxx	0x	Individual Harmonic # (2nd to 31st)	%	3	R	2	FLOAT REVERSE WORD	-	-																				
To determine starting address 30xxx																													
<b>XXX = 143 + ((Harmonic # - 2) x 2) + (60 x Constant) [see table &gt;&gt;&gt;]</b>																													
Example for 14th Harmonics of Voltage V3-1:																													
<b>XXX = 143 + ((14 - 2) x 2) + (60 x 5)</b>																													
<b>XXX = 143 + 24 + 300</b>																													
<b>XXX = 467</b>																													
					<table border="1"> <thead> <tr> <th>Constant</th> <th>Parameter</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Voltage V1-N</td> </tr> <tr> <td>1</td> <td>Voltage V2-N</td> </tr> <tr> <td>2</td> <td>Voltage V3-N</td> </tr> <tr> <td>3</td> <td>Voltage V1-2</td> </tr> <tr> <td>4</td> <td>Voltage V2-3</td> </tr> <tr> <td>5</td> <td>Voltage V3-1</td> </tr> <tr> <td>6</td> <td>Current I1</td> </tr> <tr> <td>7</td> <td>Current I2</td> </tr> <tr> <td>8</td> <td>Current I3</td> </tr> </tbody> </table>					Constant	Parameter	0	Voltage V1-N	1	Voltage V2-N	2	Voltage V3-N	3	Voltage V1-2	4	Voltage V2-3	5	Voltage V3-1	6	Current I1	7	Current I2	8	Current I3
Constant	Parameter																												
0	Voltage V1-N																												
1	Voltage V2-N																												
2	Voltage V3-N																												
3	Voltage V1-2																												
4	Voltage V2-3																												
5	Voltage V3-1																												
6	Current I1																												
7	Current I2																												
8	Current I3																												