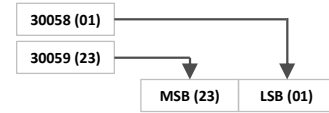


Modbus Parameters		Default
Mode:	RTU (LSB first, apply address offset of +1 for Function 3 Holding Registers)	
Baudrate:	300 / 600 / 1200 / 2400 / 4800 / 9600 / 19200 bps	9600
Data Bit:	8	
Stop Bits:	1 or 2	1
Parity:	None / Odd / Even	None
Functions:	3 / 4	
Scan Rate:	≤ 100mS	

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	-	-
30074	0x4A	Max I1 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30076	0x4C	Max I2 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30078	0x4E	Max I3 Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30080	0x50	Max Average Current Demand	A	3	R	2	FLOAT REVERSE WORD	-	-
30082	0x52	Run hour	hrs	3	R	2	FLOAT REVERSE WORD	-	-
30084	0x54	kWh1 (Imp)	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30086	0x56	kWh2 (Imp)	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30088	0x58	kWh3 (Imp)	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30090	0x5A	kWh1 (Exp)	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30092	0x5C	kWh2 (Exp)	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30094	0x5E	kWh3 (Exp)	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30096	0x60	Total kWh (Imp)	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30098	0x62	Total kWh (Exp)	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30100	0x64	kVArh1 (Imp)	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30102	0x66	kVArh2 (Imp)	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30104	0x68	kVArh3 (Imp)	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30106	0x6A	kVArh1 (Exp)	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30108	0x6C	kVArh2 (Exp)	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30110	0x6E	kVArh3 (Exp)	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30112	0x70	Total kVArh (Imp)	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30114	0x72	Total kVArh (Exp)	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30116	0x74	kVAh1	kVAh	3	R	2	FLOAT REVERSE WORD	-	-
30118	0x76	kVAh2	kVAh	3	R	2	FLOAT REVERSE WORD	-	-
30120	0x78	kVAh3	kVAh	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	-	-
30686	0x2AE	Auxillary Interrupt		3	R	2	FLOAT REVERSE WORD	-	-

Starting Address (Decimal)	Starting Register (Hex)	Parameter	Unit	Function	Read / Write	Length	Data structure	Range / Value	Default
30688	0x2B0	Phase Sequence Indicator		3	R	2	INT	0: Clockwise 1: Anticlockwise 2: Invalid	-
30692	0x2B4	Existing Max Active Power	kW	3	R	2	FLOAT REVERSE WORD	-	-
30694	0x2B6	Existing Max Reactive Power	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30696	0x2B8	Existing Max Apparent Power	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30696	0x2BA	Existing Min Active Power	kW	3	R	2	FLOAT REVERSE WORD	-	-
30700	0x2BC	Existing Min Reactive Power	kVAr	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
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	Demand Interval Method		4	R/W	1	INT	0: Sliding 1: Fixed	0
40017	0x11	Demand Interval Duration		4	R/W	1	INT	1 - 30	15
40018	0x12	Demand Interval Length	min	4	R/W	1	INT	1 - 30	1
40019	0x13	Reset Max/Min Demand		4	W	1	INT	1: Reset max/min demand	-
40020	0x14	Reset Run Hour		4	W	1	INT	1: Reset run hour	-
40021	0x15	Reset Auxillary Interrupt		4	W	1	INT	1: Reset aux interrupt	-
40022	0x16	Pulse Weight	kWh *100	4	R/W	1	INT	0.01 - 99.99	0.1
40023	0x17	Pulse Duration	sec *10	4	R/W	1	INT	0.1 - 2.0	0.1

Registers of Individual Harmonics Distortion

30xxx	0x	Parameter	Unit	Function	Read / Write	Length	Data structure	Range / Value	Default
30xxx	0x	Individual Harmonic # (2nd to 31st)	%	3	R	2	FLOAT REVERSE WORD	-	-

To determine starting address 30xxx

XXX = 143 + ((Harmonic # - 2) x 2) + (60 x Constant) [see table >>>]

Example for 14th Harmonics of Voltage V3-1:

XXX = 143 + ((14 - 2) x 2) + (60 x 5)

XXX = 143 + 24 + 300

XXX = 467

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