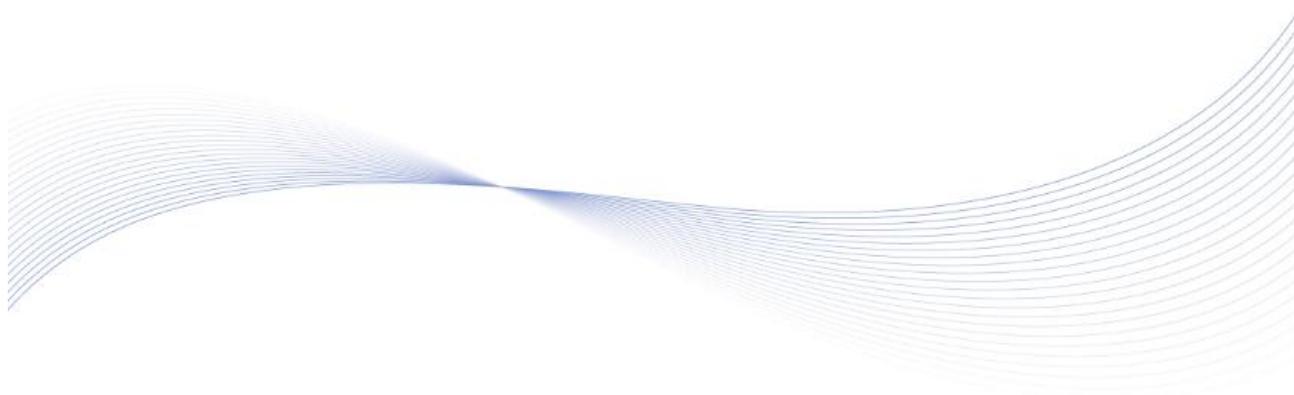

SmartGen

MAKING CONTROL SMARTER

HMT300

MULTIFUNCTIONAL TRANSMITTER

COMMUNICATION PROTOCOL



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Table 1 Software Version

Date	Version	Content
2021-09-01	V1.0	Original release.

CONTENT

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1. DESCRIPTION

This protocol describes read and write command format of RS485 half-duplex serial port communication and definition of internal information data for the third-party to develop and use.

The controller is used as the slave, using Modbus-RTU protocol, and does not support other protocols such as Modbus-ASCII.

Communication address: 1~2

Baud rate: 9600bps, 19200bps, 38400bps, 57600bps, 115200bps can be set

Start bit: 1-bit

Data bit: 8-bit

Parity bit: No Parity, Odd Parity, Even Parity (Default: No Parity)

Stop bit: 2-bit

Supported function code: 03H, 05H. Function code 03H is used for reading controller data, 05H is used for placing single register.

Data check mode: CRC16.

Internal registers of controller are in the unit of "byte (double bytes)".

Communication timeout period: over 200ms.

Communication distance: 9600 baud rate, the longest distance can reach 1,000m when using 120Ω shielding twisted pair line.

Once maximum 120 data of byte register can be read.

When RS485 is connected, 120Ω twisted pair line with shielding layer shall be used, and the shielding layer shall be grounded at one end.

2. WIRING DIAGRAM

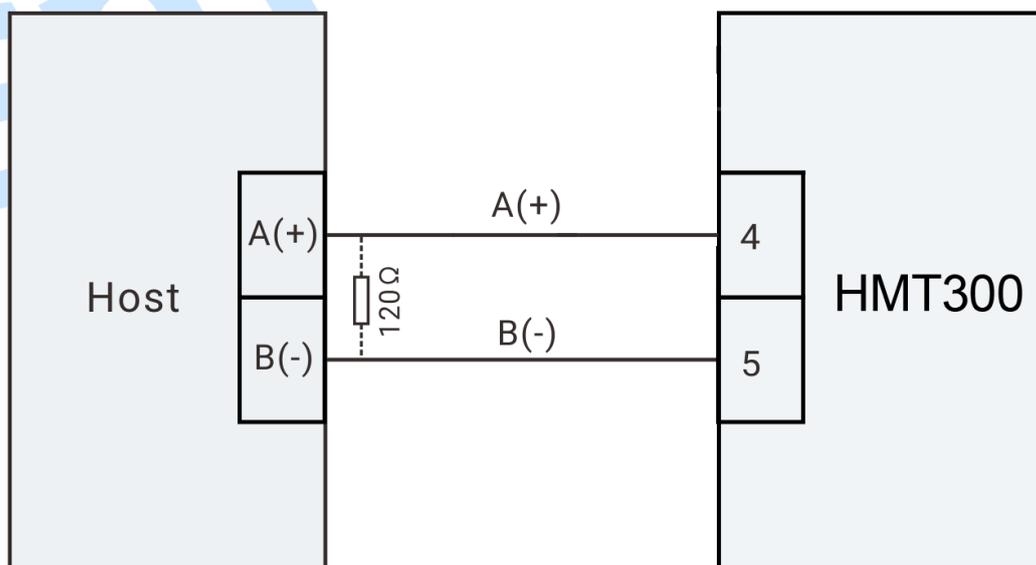


Fig.1 Single Unit Communication Wiring Diagram

NOTE1: 120Ω impedance matching resistor of the host can be connected automatically according to site situation, 120Ω resistor of analog input module can be realized by short-connecting terminal 4 and 5.

NOTE2: The above diagram is RS485 wiring diagram.

3. CONTROLLER FUNCTION CODE 03 INTERNAL REGISTER ADDRESS AND DATA

Table 2 Function Code 03H Data Field

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
0000	40001.0	Common Alarm	0-1			1 for active	1bit
	40001.1	Common Warning Alarm	0-1			1 for active	1bit
	40001.2	Common Trip Alarm	0-1			1 for active	1bit
	40001.3	Reserved	0-1			1 for active	1bit
	40001.4	Reserved	0-1			1 for active	1bit
	40001.5	Reserved	0-1			1 for active	1bit
	40001.6	Reserved	0-1			1 for active	1bit
	40001.7	Reserved	0-1			1 for active	1bit
	40001.8	Reserved	0-1			1 for active	1bit
	40001.9	Reserved	0-1			1 for active	1bit
	40001.10	Reserved	0-1			1 for active	1bit
	40001.11	Reserved	0-1			1 for active	1bit
	40001.12	Reserved	0-1			1 for active	1bit
	40001.13	Reserved	0-1			1 for active	1bit
	40001.14	Reserved	0-1			1 for active	1bit
40001.15	Reserved	0-1			1 for active	1bit	
0001	40002.0	Gen Overvoltage Trip Alarm	0-1			1 for active	1bit
	40002.1	Gen Undervoltage Trip Alarm	0-1			1 for active	1bit
	40002.2	Gen Loss of Phase Trip Alarm	0-1			1 for active	1bit
	40002.3	Gen Reverse Phase Sequence Trip Alarm	0-1			1 for active	1bit
	40002.4	Gen Overfrequency Trip Alarm	0-1			1 for active	1bit
	40002.5	Gen Underfrequency Trip Alarm	0-1			1 for active	1bit
	40002.6	Gen Overcurrent Trip Alarm	0-1			1 for active	1bit
	40002.7	Reserved	0-1			1 for active	1bit
	40002.8	Gen Overpower Trip Alarm	0-1			1 for active	1bit
	40002.9	Reserved	0-1			1 for active	1bit
	40002.10	Gen Reverse Power Alarm	0-1			1 for active	1bit
	40002.11	Reserved	0-1			1 for active	1bit
	40002.12	Reserved	0-1			1 for active	1bit
40002.13	Reserved	0-1			1 for active	1bit	

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
	40002.14	Input 1 Trip	0-1			1 for active	1bit
	40002.15	Input 2 Trip	0-1			1 for active	1bit
0002	40003.0	Gen Overvoltage Warning Alarm	0-1			1 for active	1bit
	40003.1	Gen Undervoltage Warning Alarm	0-1			1 for active	1bit
	40003.2	Reserved	0-1			1 for active	1bit
	40003.3	Reserved	0-1			1 for active	1bit
	40003.4	Gen Overfrequency Warning Alarm	0-1			1 for active	1bit
	40003.5	Gen Underfrequency Warning Alarm	0-1			1 for active	1bit
	40003.6	Reserved	0-1			1 for active	1bit
	40003.7	Gen Overcurrent Warning	0-1			1 for active	1bit
	40003.8	Reserved	0-1			1 for active	1bit
	40003.9	Gen Overpower Warning	0-1			1 for active	1bit
	40003.10	Reserved	0-1			1 for active	1bit
	40003.11	Gen Reverse Power Warning	0-1			1 for active	1bit
	40003.12	Gen Overcurrent Pre-alarm	0-1			1 for active	1bit
	40003.13	Reserved	0-1			1 for active	1bit
	40003.14	Input 1 Warning	0-1			1 for active	1bit
40003.15	Input 2 Warning	0-1			1 for active	1bit	
0003	40004.0	Voltage L1 THDu Over	0-1			1 for active	1bit
	40004.1	Voltage L2 THDu Over	0-1			1 for active	1bit
	40004.2	Voltage L3 THDu Over	0-1			1 for active	1bit
	40004.3	Current L1 THDi Over	0-1			1 for active	1bit
	40004.4	Current L2 THDi Over	0-1			1 for active	1bit
	40004.5	Current L3 THDi Over	0-1			1 for active	1bit
	40004.6	Voltage L1 THu Over	0-1			1 for active	1bit
	40004.7	Voltage L2 THu Over	0-1			1 for active	1bit
	40004.8	Voltage L3 THu Over	0-1			1 for active	1bit
	40004.9	Current L1 THi Over	0-1			1 for active	1bit
	40004.10	Current L2 THi Over	0-1			1 for active	1bit
	40004.11	Current L3 THi Over	0-1			1 for active	1bit
	40004.12	Reserved	0-1			1 for active	1bit
	40004.13	Reserved	0-1			1 for active	1bit

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
	40004.14	Reserved	0-1			1 for active	1bit
	40004.15	Reserved	0-1			1 for active	1bit
0004	40005	Reserved					2Bytes
0005	40006.0	Input 1 Status	0-1			1 for active	1bit
	40006.1	Input 2 Status	0-1			1 for active	1bit
	40006.2	Reserved	0-1			1 for active	1bit
	40006.3	Reserved	0-1			1 for active	1bit
	40006.4	Reserved	0-1			1 for active	1bit
	40006.5	Reserved	0-1			1 for active	1bit
	40006.6	Reserved	0-1			1 for active	1bit
	40006.7	Reserved	0-1			1 for active	1bit
	40006.8	Reserved	0-1			1 for active	1bit
	40006.9	Reserved	0-1			1 for active	1bit
	40006.10	Reserved	0-1			1 for active	1bit
	40006.11	Reserved	0-1			1 for active	1bit
	40006.12	Reserved	0-1			1 for active	1bit
	40006.13	Reserved	0-1			1 for active	1bit
	40006.14	Reserved	0-1			1 for active	1bit
40006.15	Reserved	0-1			1 for active	1bit	
0006	40007	Reserved					2Bytes
0007	40008.0	Output 1 Status	0-1			1 for active	1bit
	40008.1	Output 2 Status	0-1			1 for active	1bit
	40008.2	Reserved	0-1			1 for active	1bit
	40008.3	Reserved	0-1			1 for active	1bit
	40008.4	Reserved	0-1			1 for active	1bit
	40008.5	Reserved	0-1			1 for active	1bit
	40008.6	Reserved	0-1			1 for active	1bit
	40008.7	Reserved	0-1			1 for active	1bit
	40008.8	Reserved	0-1			1 for active	1bit
	40008.9	Reserved	0-1			1 for active	1bit
	40008.10	Reserved	0-1			1 for active	1bit
	40008.11	Reserved	0-1			1 for active	1bit
	40008.12	Reserved	0-1			1 for active	1bit
	40008.13	Reserved	0-1			1 for active	1bit
	40008.14	Reserved	0-1			1 for active	1bit
40008.15	Reserved	0-1			1 for active	1bit	
0008	40009	Reserved					2Bytes
0009	40010	UAB Voltage	0-1500.00	0.01	V		2Bytes
0010	40011						2Bytes
0011	40012	UBC Voltage	0-1500.00	0.01	V		2Bytes
0012	40013						2Bytes
0013	40014	UCA Voltage	0-1500.00	0.01	V		2Bytes
0014	40015						2Bytes

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
0015	40016	UA Voltage	0-1000.00	0.01	V		2Bytes
0016	40017						2Bytes
0017	40018	UB Voltage	0-1000.00	0.01	V		2Bytes
0018	40019						2Bytes
0019	40020	UC Voltage	0-1000.00	0.01	V		2Bytes
0020	40021						2Bytes
0021	40022	Gen UA Phase	0-360.0	0.1	°		2Bytes
0022	40023	Gen UB Phase	0-360.0	0.1	°		2Bytes
0023	40024	Gen UC Phase	0-360.0	0.1	°		2Bytes
0024	40025	Gen Frequency	0-99.99	0.01	Hz		2Bytes
0025	40026	Reserved					2Bytes
0026	40027	Reserved					2Bytes
0027	40028	Reserved					2Bytes
0028	40029	A Phase Current	0-99999.9	0.1	A		2Bytes
0029	40030						2Bytes
0030	40031	B Phase Current	0-99999.9	0.1	A		2Bytes
0031	40032						2Bytes
0032	40033	C Phase Current	0-99999.9	0.1	A		2Bytes
0033	40034						2Bytes
0034	40035	Active Percentage	0-100	0.1	%		2Bytes
0035	40036	Reactive Percentage	0-100	0.1	%		2Bytes
0036	40037	Reserved					2Bytes
0037	40038	Reserved					2Bytes
0038	40039	Reserved					2Bytes
0039	40040	AC Input	0-3	1			2Bytes
0040	40041	Reserved					2Bytes
0041	40042	Reserved					2Bytes
0042	40043	Reserved					2Bytes
0043	40044	Reserved					2Bytes
0044	40045	A Phase Active Power	0-99999.9	0.1	kW		2Bytes
0045	40046						2Bytes
0046	40047	B Phase Active Power	0-99999.9	0.1	kW		2Bytes
0047	40048						2Bytes
0048	40049	C Phase Active Power	0-99999.9	0.1	kW		2Bytes
0049	40050						2Bytes
0050	40051	Total Active Power	0-999999.9	0.1	kW		2Bytes
0051	40052						2Bytes
0052	40053	A Phase Reactive Power	0-99999.9	0.1	kvar		2Bytes
0053	40054						2Bytes
0054	40055	B Phase Reactive Power	0-99999.9	0.1	kvar		2Bytes
0055	40056						2Bytes
0056	40057	C Phase Reactive	0-99999.9	0.1	kvar		2Bytes

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
0057	40058	Power					2Bytes
0058	40059	Total Reactive Power	0-999999.9	0.1	kvar		2Bytes
0059	40060						2Bytes
0060	40061	A Phase Apparent Power	0-99999.9	0.1	kVA		2Bytes
0061	40062						2Bytes
0062	40063	B Phase Apparent Power	0-99999.9	0.1	kVA		2Bytes
0063	40064						2Bytes
0064	40065	C Phase Apparent Power	0-99999.9	0.1	kVA		2Bytes
0065	40066						2Bytes
0066	40067	Total Apparent Power	0-999999.9	0.1	kVA		2Bytes
0067	40068						2Bytes
0068	40069	A Phase Power Factor	-1.000-1.000	0.001			2Bytes
0069	40070	B Phase Power Factor	-1.000-1.000	0.001			2Bytes
0070	40071	C Phase Power Factor	-1.000-1.000	0.001			2Bytes
0071	40072	Average Power Factor	-1.000-1.000	0.001			2Bytes
0072	40073	A Phase THDu Rate	0-100	0.1	%		2Bytes
0073	40074	B Phase THDu Rate	0-100	0.1	%		2Bytes
0074	40075	C Phase THDu Rate	0-100	0.1	%		2Bytes
0075	40076	A Phase THDi Rate	0-100	0.1	%		2Bytes
0076	40077	B Phase THDi Rate	0-100	0.1	%		2Bytes
0077	40078	C Phase THDi Rate	0-100	0.1	%		2Bytes
0078	40079	Accumulated Active Energy	0-2000000000	1	kWh		2Bytes
0079	40080						2Bytes
0080	40081	Accumulated Reactive Energy	0-2000000000	1	kvarh		2Bytes
0081	40082						2Bytes
0082	40083	Reserved					2Bytes
0083	40084	Controller SW					2Bytes
0084	40085	Controller HW					2Bytes
0085	40086	Reserved					2Bytes
0086	40087	Accumulated Negative Active Power	-2000000000-0	1	kWh		2Bytes
0087	40088						2Bytes
0088	40089	Accumulated Negative Reactive Power	-2000000000-0	1	kvarh		2Bytes
0089	40090						2Bytes
0090	40091	Reserved					2Bytes
0091	40092	Reserved					2Bytes
0092	40093	Reserved					2Bytes

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
0093	40094	Reserved					2Bytes
0094	40095	Reserved					2Bytes
0095	40096	Reserved					2Bytes
0096	40097	Reserved					2Bytes
0097	40098	Reserved					2Bytes
0098	40099	Reserved					2Bytes
0099	40100	Voltage A/AB 3 rd Harmonic	0-100	0.1	%		2Bytes
00100	40101	Voltage A/AB 5 th Harmonic	0-100	0.1	%		2Bytes
00101	40102	Voltage A/AB 7 th Harmonic	0-100	0.1	%		2Bytes
00102	40103	Voltage A/AB 9 th Harmonic	0-100	0.1	%		2Bytes
00103	40104	Voltage A/AB 11 th Harmonic	0-100	0.1	%		2Bytes
00104	40105	Voltage A/AB 13 th Harmonic	0-100	0.1	%		2Bytes
00105	40106	Voltage A/AB 15 th Harmonic	0-100	0.1	%		2Bytes
00106	40107	Voltage A/AB 17 th Harmonic	0-100	0.1	%		2Bytes
00107	40108	Voltage A/AB 19 th Harmonic	0-100	0.1	%		2Bytes
00108	40109	Voltage A/AB 21 st Harmonic	0-100	0.1	%		2Bytes
00109	40110	Voltage A/AB 23 rd Harmonic	0-100	0.1	%		2Bytes
00110	40111	Voltage A/AB 25 th Harmonic	0-100	0.1	%		2Bytes
00111	40112	Voltage A/AB 27 th Harmonic	0-100	0.1	%		2Bytes
00112	40113	Voltage A/AB 29 th Harmonic	0-100	0.1	%		2Bytes
00113	40114	Voltage A/AB 31 st Harmonic	0-100	0.1	%		2Bytes
00114	40115	Voltage B/BC 3 rd Harmonic	0-100	0.1	%		2Bytes
00115	40116	Voltage B/BC 5 th Harmonic	0-100	0.1	%		2Bytes
00116	40117	Voltage B/BC 7 th Harmonic	0-100	0.1	%		2Bytes
00117	40118	Voltage B/BC 9 th Harmonic	0-100	0.1	%		2Bytes

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
		Harmonic					
00118	40119	Voltage B/BC 11 th Harmonic	0-100	0.1	%		2Bytes
00119	40120	Voltage B/BC 13 th Harmonic	0-100	0.1	%		2Bytes
00120	40121	Voltage B/BC 15 th Harmonic	0-100	0.1	%		2Bytes
00121	40122	Voltage B/BC 17 th Harmonic	0-100	0.1	%		2Bytes
00122	40123	Voltage B/BC 19 th Harmonic	0-100	0.1	%		2Bytes
00123	40124	Voltage B/BC 21 st Harmonic	0-100	0.1	%		2Bytes
00124	40125	Voltage B/BC 23 rd Harmonic	0-100	0.1	%		2Bytes
00125	40126	Voltage B/BC 25 th Harmonic	0-100	0.1	%		2Bytes
00126	40127	Voltage B/BC 27 th Harmonic	0-100	0.1	%		2Bytes
00127	40128	Voltage B/BC 29 th Harmonic	0-100	0.1	%		2Bytes
00128	40129	Voltage B/BC 31 st Harmonic	0-100	0.1	%		2Bytes
00129	40130	Voltage C/CA 3 rd Harmonic	0-100	0.1	%		2Bytes
00130	40131	Voltage C/CA 5 th Harmonic	0-100	0.1	%		2Bytes
00131	40132	Voltage C/CA 7 th Harmonic	0-100	0.1	%		2Bytes
00132	40133	Voltage C/CA 9 th Harmonic	0-100	0.1	%		2Bytes
00133	40134	Voltage C/CA 11 th Harmonic	0-100	0.1	%		2Bytes
00134	40135	Voltage C/CA 13 th Harmonic	0-100	0.1	%		2Bytes
00135	40136	Voltage C/CA 15 th Harmonic	0-100	0.1	%		2Bytes
00136	40137	Voltage C/CA 17 th Harmonic	0-100	0.1	%		2Bytes
00137	40138	Voltage C/CA 19 th Harmonic	0-100	0.1	%		2Bytes
00138	40139	Voltage C/CA 21 st Harmonic	0-100	0.1	%		2Bytes

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
00139	40140	Voltage C/CA 23 rd Harmonic	0-100	0.1	%		2Bytes
00140	40141	Voltage C/CA 25 th Harmonic	0-100	0.1	%		2Bytes
00141	40142	Voltage C/CA 27 th Harmonic	0-100	0.1	%		2Bytes
00142	40143	Voltage C/CA 29 th Harmonic	0-100	0.1	%		2Bytes
00143	40144	Voltage C/CA 31 st Harmonic	0-100	0.1	%		2Bytes
00144	40145	Current A/AB 3 rd Harmonic	0-100	0.1	%		2Bytes
00145	40146	Current A/AB 5 th Harmonic	0-100	0.1	%		2Bytes
00146	40147	Current A/AB 7 th Harmonic	0-100	0.1	%		2Bytes
00147	40148	Current A/AB 9 th Harmonic	0-100	0.1	%		2Bytes
00148	40149	Current A/AB 11 th Harmonic	0-100	0.1	%		2Bytes
00149	40150	Current A/AB 13 th Harmonic	0-100	0.1	%		2Bytes
00150	40151	Current A/AB 15 th Harmonic	0-100	0.1	%		2Bytes
00151	40152	Current A/AB 17 th Harmonic	0-100	0.1	%		2Bytes
00152	40153	Current A/AB 19 th Harmonic	0-100	0.1	%		2Bytes
00153	40154	Current A/AB 21 st Harmonic	0-100	0.1	%		2Bytes
00154	40155	Current A/AB 23 rd Harmonic	0-100	0.1	%		2Bytes
00155	40156	Current A/AB 25 th Harmonic	0-100	0.1	%		2Bytes
00156	40157	Current A/AB 27 th Harmonic	0-100	0.1	%		2Bytes
00157	40158	Current A/AB 29 th Harmonic	0-100	0.1	%		2Bytes
00158	40159	Current A/AB 31 st Harmonic	0-100	0.1	%		2Bytes
00159	40160	Current B/BC 3 rd Harmonic	0-100	0.1	%		2Bytes
00160	40161	Current B/BC 5 th Harmonic	0-100	0.1	%		2Bytes

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
		Harmonic					
00161	40162	Current B/BC 7 th Harmonic	0-100	0.1	%		2Bytes
00162	40163	Current B/BC 9 th Harmonic	0-100	0.1	%		2Bytes
00163	40164	Current B/BC 11 th Harmonic	0-100	0.1	%		2Bytes
00164	40165	Current B/BC 13 th Harmonic	0-100	0.1	%		2Bytes
00165	40166	Current B/BC 15 th Harmonic	0-100	0.1	%		2Bytes
00166	40167	Current B/BC 17 th Harmonic	0-100	0.1	%		2Bytes
00167	40168	Current B/BC 19 th Harmonic	0-100	0.1	%		2Bytes
00168	40169	Current B/BC 21 st Harmonic	0-100	0.1	%		2Bytes
00169	40170	Current B/BC 23 rd Harmonic	0-100	0.1	%		2Bytes
00170	40171	Current B/BC 25 th Harmonic	0-100	0.1	%		2Bytes
00171	40172	Current B/BC 27 th Harmonic	0-100	0.1	%		2Bytes
00172	40173	Current B/BC 29 th Harmonic	0-100	0.1	%		2Bytes
00173	40174	Current B/BC 31 st Harmonic	0-100	0.1	%		2Bytes
00174	40175	Current C/CA 3 rd Harmonic	0-100	0.1	%		2Bytes
00175	40176	Current C/CA 5 th Harmonic	0-100	0.1	%		2Bytes
00176	40177	Current C/CA 7 th Harmonic	0-100	0.1	%		2Bytes
00177	40178	Current C/CA 9 th Harmonic	0-100	0.1	%		2Bytes
00178	40179	Current C/CA 11 th Harmonic	0-100	0.1	%		2Bytes
00179	40180	Current C/CA 13 th Harmonic	0-100	0.1	%		2Bytes
00180	40181	Current C/CA 15 th Harmonic	0-100	0.1	%		2Bytes
00181	40182	Current C/CA 17 th Harmonic	0-100	0.1	%		2Bytes

Modbus Address	PLC Address	Item	Range (Decimal)	Ratio	Unit	Description	Remark
00182	40183	Current C/CA 19 th Harmonic	0-100	0.1	%		2Bytes
00183	40184	Current C/CA 21 st Harmonic	0-100	0.1	%		2Bytes
00184	40185	Current C/CA 23 rd Harmonic	0-100	0.1	%		2Bytes
00185	40186	Current C/CA 25 th Harmonic	0-100	0.1	%		2Bytes
00186	40187	Current C/CA 27 th Harmonic	0-100	0.1	%		2Bytes
00187	40188	Current C/CA 29 th Harmonic	0-100	0.1	%		2Bytes
00188	40189	Current C/CA 31 st Harmonic	0-100	0.1	%		2Bytes

NOTE1: Actual value=received data*ratio. Take the voltage value as the example, if the received data is 22000 (55F0H), ratio is 0.01, then the actual value is 220.00V (22000*0.01);

NOTE2: The definition of signed number. Take received data 8000H as the example, transfer it to binary 1000 0000 0000 0000b, the MSB is 1, which is a negative number. One's complement is obtained by subtracting 1 from it, which is inverted to obtain the absolute value of the negative number. Then transfer it to -32768 in decimal.

Example:

Read "UA Voltage Value (Currently is 220.00V)", firstly get its address is 0015 by checking the table, it is known that you need to read 1 byte's data.

Assume the slave address is 01, the master request command is as following:

Table 3 Master Request Command

Slave Address	Function Code	Starting Address (0015)		Data Qty. (2)		CRC 16 Calibration	
		MSB	LSB	MSB	LSB	LSB	MSB
01	03	00	0F	00	01	B4	09

The slave response information is as following:

Table 4 Slave Response Command

Slave Address	Function Code	Data Qty. (Bytes)	Data		CRC 16 Calibration	
			Data MSB of Address 0015	Data LSB of Address 0015	LSB	MSB
01	03	02	55	F0	87	50

Fill received data into corresponding address, which is shown as following:

Table 5 Data Analysis

Address	Received Data (Hex)	Conversion (Decimal)	A Phase Voltage Value (Decimal)
0015	55F0	22000	220.00V

4. CONTROLLER FUNCTION CODE 05 REGISTER ADDRESS AND DATA

Table 6 Function Code 05 Address

Address	Item	Description
0000	Alarm Reset	1 for active
0001	Accumulated Zero Clearing	1 for active
0002	Reserved	1 for active
0003	Reserved	1 for active
0004	Reserved	1 for active
0005	Reserved	1 for active

Example:

Read "Alarm Reset", firstly get its address is 0000 by checking the table, it is known that you need to read 1 byte's data.

Assume the slave address is 01, the master request command is as following:

Table 7 Master Request Command

Slave Address	Function Code	Starting Address (0000)		Request Reset Command		CRC 16 Calibration	
		MSB	LSB	MSB	LSB	LSB	MSB
01	05	00	00	FF	00	8C	3A

After the execution, the slave response command is same as request command, which is shown as following:

Table 8 Slave Response Command

Slave Address	Function Code	Starting Address (0000)		Request Reset Command		CRC 16 Calibration	
		MSB	LSB	MSB	LSB	LSB	MSB
01	05	00	00	FF	00	8C	3A