

Technical Information

**HYPONTECH Modbus**

**Communication Protocol**

**HPK / HPS / HPT/HHS**

**HYPONTECH**  
ENERGIZING FUTURE

**HPS**  
**Everything <sup>+</sup>**  
Single Phase 2 MPPTs

**HPT**  
**Everything <sup>3</sup>**  
Three Phase 2 MPPTs



## VERSION HISTORY

- Version 1.0, Sep 2020 – First Release
- Version 1.1, Nov 2020 – Updated new grid standards (24-29)
- Version 1.2, Jun 2021 – Updated the following content.
  - A. New device information 30047, 30048
  - B. New fault code (20)
  - C. New warning code (16, 17)
  - D. New monitor information 30124, 30125, 30154, 30156, 30158
- Version 1.3, Aug 2021 – Updated the following content.
  - A. Substate 30160
  - B. Battery parameters 30161-30182
- Version 1.4, Nov 2021 – Updated the following content.
  - A. Grid Standard 40045
  - B. Grid protection 40300-40371
  - C. Active power control 40400-40431
  - D. Reactive power control 40510-40550
  - E. Internal settings 40819
  - F. Energy management 40900-40935
- Version 1.5, Jan 2022 – Updated the following content.
  - A. Battery simulator SOC 40902
  - B. EMS mode 40907
  - C. Battery Information 30238-30249

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## 1. INFORMATION ON THIS DOCUMENT

The Modbus Protocol is a communication protocol that is currently used to establish solar PV system communication, applied between HYPONTECH's grid-tied photovoltaic inverter and monitoring software. The Modbus Protocol complies with RTU protocol specifications, allowing real-time status and operation statistics on monitoring interface.

## 2. CONNECTION PORTS

### RS485

#### RS485 Specifications

Addressing Modes	Device Register Address 1-16
Baud Rate	9600 Bit/s
Parity Bit	N/A
Data Bit	8
Stop Bit	1
Frame Format	Modbus RTU
Port Cabling	RS485 2W-Cabling

## 3. REGISTER ADDRESS MAP

### Device Information

Register Address	HEX	Register Name	Byte	Format	Description
30000	7530	Firmware PN	14	ASCII*14	Part number of Firmware
30010	753A	Manufacturer name	16	ASCII*16	
30018	7542	Model name	16	ASCII*16	
30026	754A	Serial number	16	ASCII*16	
30034	7552	Device type	2	U16	
30035	7553	Grid Type	2	U16	
30036	7554	Rated power	2	U16	
30037	7555	Hardware version	4	U8*4	V x.x.x.x
30039	7557	Software version	4	U8*4	V x.x.x.x
30041	7559	Protocol version	4	U8*4	V x.x.x.x
30043	755B	Parameter version	4	U8*4	V x.x.x.x

Register Address	HEX	Register Name	Byte	Format	Description
30047	755F	Max. Apparent power	2	VA	Max. Apparent power output
30048	7560	No. MPPT	2	-	Number of MPPT

## Monitor Information & Statistics

Register Address	HEX	Register Name	Byte	Unit	Format	Description
30100	7594	Output P	4	W	S32	
30102	7596	Output S	4	VA	S32	
30104	7598	Output Q	4	VAR	S32	
30106	759A	Output PF	2	0.01	U16	
30107	759B	Q/PF direction	2		U16	1: Lag 2: Lead
30108	759C	Meter Power	4	W	S32	
30110	759E	E-today	2	0.1KWH	U16	
30111	759F	E-total	4	KWH	U32	
30113	75A1	H-total	4	H	U32	
30115	75A3	Inverter state	2		U16	0: Wait 1: Normal 2: Fault
30116	75A4	Waiting time	2	S	U16	
30119	75A7	PV1 voltage	2	0.1V	U16	
30120	75A8	PV1 current	2	0.1A	U16	
30121	75A9	PV2 voltage	2	0.1V	U16	
30122	75AA	PV2 current	2	0.1A	U16	
30123	75AB	PV3 voltage	2	0.1V	U16	
30124	75AC	PV3 current	2	0.1A	U16	
30125	75AD	PV4 voltage	2	0.1V	U16	
30126	75AE	PV4 current	2	0.1A	U16	
30127	75AF	Reserve	2	0.1V	U16	
30128	75B0	Reserve	2	0.1A	U16	
30129	75B1	Reserve	2	0.1V	U16	
30130	75B2	Reserve	2	0.1A	U16	
30131	75B3	Grid R voltage	2	0.1V	U16	
30132	75B4	Grid R current	2	0.1A	U16	
30133	75B5	Grid S voltage	2	0.1V	U16	
30134	75B6	Grid S current	2	0.1A	U16	
30135	75B7	Grid T voltage	2	0.1V	U16	
30136	75B8	Grid T current	2	0.1A	U16	
30137	75B9	Grid Line Voltage RS	2	0.1V	U16	
30138	75BA	Grid Line Voltage ST	2	0.1V	U16	
30139	75BB	Grid Line Voltage TR	2	0.1V	U16	

30140	75BC	Grid frequency	2	0.01Hz	U16	
30154	75CA	E-total	4	kWh	Float32	
30156	75CC	Import energy from meter	4	kWh	Float32	
30158	75CE	Export energy from meter	4	kWh	Float32	
30160	75D0	Substate	2			0:Null 1:Normal at Grid tied mode 2:Normal at Back up mode
30161	75D1	BatSt	2		Enum16	Battery status 0:Sleep 1:Charging 2:Discharging 3:Idle 4~7:Reserve
30162	75D2	Wcha	4	W	S32	charge/discharge power Positive value:Discharge Negative value:Charge
30164	75D4	BatV	2	0.1V	U16	
30165	75D5	BatA	2	0.1A	S16	charge/discharge power Positive value:Discharge Negative value:Charge
30169	75D9	CT Current	2	0.1A	S16	
30170	75DA	EPSVolt	2	0.1V	U16	EPS Voltage
30171	75DB	EPSFreq	2	0.1A	U16	EPS Frequency
30172	75DC	EPSPower	4	W	S32	EPS Power
30174	75DE	BatChaKWH	4	KWH	Float32	Battery Charge
30176	75E0	BatDischaKWH	4	KWH	Float32	Battery Discharge

30178	75E2	FromGridKWH	4	KWH	Float32	
30180	75E4	EPSKWH	4	KWH	Float32	
30182	75E6	SOC	2	%	U16	Battery SOC

### Battery Information

Register Address	HEX	Register Name	Byte	Unit	Format	Description
30238	761E	AChaMax	2	0.1A	S16	Charge Current
30239	761F	ADisChaMax	2	0.1A	U16	Max Discharge Current
30245	7625	VBat	2	0.1V	U16	Battery Voltage
30246	7626	ABat	2	0.1A	S16	Battery Current
30247	7627	Temp	2	0.1°C	S16	Battery Temperature
30248	7628	SOC	2	%	U16	State of Chargee
30249	7629	SOH	2	%	U16	State of Health

### Setting Parameters

#### (1) Protection parameter

Register Address	HEX	Register Name	Byte	Unit	Format	Description
40300	9D6C	First connection voltage upper value	2	0.1V	U16	100-300V
40301	9D6D	First connection voltage lower value	2	0.1V	U16	100-300V
40302	9D6E	First connection frequency upper value	2	0.01Hz	U16	45-65Hz
40303	9D6F	First connection frequency lower value	2	0.01hz	U16	45-65Hz
40304	9D70	First connection grid check time	4	mS	U32	-
40306	9D72	First connection time	2	S	U16	-
40307	9D73	First connection power increase rate	2	0.1%Pn/min	U16	-
40310	9D76	Over voltage protection value 1	2	0.1V	U16	100-300V
40311	9D77	Over voltage trigger time 1	4	mS	U32	-
40313	9D79	Over voltage protection value 2	2	0.1V	U16	100-300V
40314	9D7A	Over voltage trigger time 2	4	mS	U32	-
40316	9D7C	Over voltage protection value 3	2	0.1V	U16	100-300V

40317	9D7D	Over voltage	trigger time 3	4	mS	U32	-
40319	9D7F	Under voltage	protection value 1	2	0.1V	U16	100-300V
40320	9D80	Under voltage	trigger time 1	4	mS	U32	-
40322	9D82	Under voltage	protection value 2	2	0.1V	U16	100-300V
40323	9D83	Under voltage	trigger time 2	4	mS	U32	-
40325	9D85	Under voltage	protection value 3	2	0.1V	U16	100-300V
40326	9D86	Under voltage	trigger time 3	4	mS	U32	-
40328	9D88	Over frequency	protection value 1	2	0.01Hz	U16	45-65Hz
40329	9D89	Over frequency	trigger time 1	4	mS	U32	-
40331	9D8B	Over frequency	protection value 2	2	0.01Hz	U16	45-65Hz
40332	9D8C	Over frequency	trigger time 2	4	mS	U32	-
40334	9D8E	Over frequency	protection value 3	2	0.01Hz	U16	45-65Hz
40335	9D8F	Over frequency	trigger time 3	4	mS	U32	-
40337	9D91	Under frequency	protection value 1	2	0.01Hz	U16	45-65Hz
40338	9D92	Under frequency	trigger time 1	4	mS	U32	-
40340	9D94	Under frequency	protection value 2	2	0.01Hz	U16	45-65Hz
40341	9D95	Under frequency	trigger time 2	4	mS	U32	-
40343	9D97	Under frequency	protection value 3	2	0.01Hz	U16	45-65Hz
40344	9D98	Under frequency	trigger time 3	4	mS	U32	-
40346	9D9A	10min average voltage	protection value	2	0.1V	U16	100-300V
40347	9D9B	10min average voltage	trigger time	4	mS	U32	-
40349	9D9D	Over voltage	recovery value	2	0.1V	U16	100-300V
40350	9D9E	Under voltage	recovery value	2	0.1V	U16	100-300V
40351	9D9F	Over frequency	recovery value	2	0.01Hz	U16	45-65Hz
40352	9DA0	Under frequency	recovery value	2	0.01Hz	U16	45-65Hz
40353	9DA1	Grid fault	recovery time	4	mS	U32	-
40356	9DA4	Grid fault	reconnection time	2	S	U16	-
40357	9DA5	Power recovery	rate after reconnect	2	0.1%Pn/min	U16	-
40358	9DA6	DciProtectValue		2	mA	U16	
40359	9DA7	DciProtectTime		2	mS	U16	
40360	9DA8	IsoProtectValue		2	Kohm	U16	
40361	9DA9	IsoProtectTime		2	mS	U16	



40362	9DAA	Gfci30mAProtectValue	2	mA	U16	
40363	9DAB	Gfci30mAProtectTime	2	mS	U16	
40364	9DAC	Gfci60mAProtectValue	2	mA	U16	
40365	9DAD	Gfci60mAProtectTime	2	mS	U16	
40366	9DAE	Gfci150mAProtectValue	2	mA	U16	
40367	9DAF	Gfci150mAProtectTime	2	mS	U16	
40368	9DB0	Gfci300mAProtectValue	2	mA	U16	
40369	9DB1	Gfci300mAProtectTime	2	mS	U16	
40370	9DB2	ExternalSignal	2	-	U16	0-1(1 as default)
40371	9DB3	LocalControl	2	-	U16	0-1(0 as default)

## (2) Active power control

Register Address	HEX	Register Name	Byte	Unit	Format	Description
40400	9DD0	Active power control mode	2	-	U16	0: No used 1: Fixed active power 2:DRED 3:Meter 4:Plant control
40401	9DD1	Meter limit power	4	W	S32	
40403	9DD3	Meter type	2	-	-	0: SDM230 1: SDM630
40406	9DD6	<b>Startup loading slope</b>	2	0.1%Pn/min	U16	
40408	9DD8	Active power Increase Rate	2	0.1%Pn/min	U16	
40409	9DD9	Active power Decrease Rate	2	0.1%Pn/min	U16	
40410	9DDA	Fixed active power	2	%Pn	U16	0-100
40411	9DDB	Over frequency response enable	2	-	U16	0:Disable 1:Enable
40412	9DDC	Fixed active power response time	2	S	U16	-
40413	9DDD	Over frequency response mode	2		U16	1:Hysteresis mode 2:No hysteresis mode
40414	9DDE	Over frequency response Fstart	2	0.01Hz	U16	45-65Hz
40415	9DDF	Over frequency response Fstop	2	0.01Hz	U16	45-65Hz
40416	9DE0	Over frequency response P drop rate	2	0.1%Pn/min	U16	-
40417	9DE1	Over frequency response Fback	2	0.01Hz	U16	45-65Hz
40418	9DE2	Over frequency response P recovery rate	2	0.1%Pn/min	U16	-
40419	9DE3	Over frequency response delay time	2	S	U16	
40420	9DE4	Over frequency recovery delay time	2	S	U16	
40422	9DE6	P(U) curve enable	2	-	U16	0:Disable 1:Enable
40423	9DE7	P(U) curve P 1	2	%Pn	U16	0-100

40424	9DE8	P(U) curve U 1	2	0.1V	U16	100-300V
40425	9DE9	P(U) curve P 2	2	%Pn	U16	0-100
40426	9DEA	P(U) curve U 2	2	0.1V	U16	100-300V
40427	9DEB	P(U) curve P 3	2	%Pn	U16	0-100
40428	9DEC	P(U) curve U 3	2	0.1V	U16	100-300V
40429	9DED	P(U) curve P 4	2	%Pn	U16	0-100
40430	9DEE	P(U) curve U 4	2	0.1V	U16	100-300V
40431	9DEF	P(U) P response time	2	S	U16	0-60S

## (3) Reactive power control

Register Address	HEX	Register Name	Byte	Unit	Format	Description
40510	9E3E	Reactive power control mode	2		U16	0: No used 1: Fixed cosPhi 2: Fixed Q 3: Cosphi(P) 4: Q(U) 5: DRED
40511	9E3F	DRM7 Q	2	%Pn	U16	0-60
40512	9E40	Fixed cosPhi	2	0.01	U16	80-100
40513	9E41	Fixed cosPhi phase	2		U16	1: Lag 2: Lead
40514	9E42	CosPhi response time	2	S	U16	0-60S
40515	9E43	Fixed Q	2	%Pn	U16	0-60
40516	9E44	Fixed Q phase	2		U16	1: Lag 2: Lead
40517	9E45	Q response time	2	S	U16	0-60S
40518	9E46	CosPhi(P) cosPhi 1	2	0.01	U16	80-100
40519	9E47	CosPhi(P) cosPhi 1 phase	2		U16	1: Lag 2: Lead
40520	9E48	CosPhi(P) P 1	2	%Pn	U16	0-100
40521	9E49	CosPhi(P) cosPhi 2	2	0.01	U16	80-100
40522	9E4A	CosPhi(P) cosPhi 2 phase	2		U16	1: Lag 2: Lead
40523	9E4B	CosPhi(P) P 2	2	%Pn	U16	0-100
40524	9E4C	CosPhi(P) cosPhi 3	2	0.01	U16	80-100
40525	9E4D	CosPhi(P) cosPhi 3 phase	2		U16	1: Lag 2: Lead
40526	9E4E	CosPhi(P) P 3	2	%Pn	U16	0-100
40527	9E4F	CosPhi(P) cosPhi 4	2	0.01	U16	80-100
40528	9E50	CosPhi(P) cosPhi 4 phase	2		U16	1: Lag 2: Lead
40529	9E51	CosPhi(P) P 4	2	%Pn	U16	0-100

40530	9E52	CosPhi(P) cosPhi response time	2	S	U16	0-60S
40531	9E53	CosPhi Mode	2	S	U16	1:Cosphi-P Hypst 0:Cosphi-P NoHypst
40532	9E54	Q(U) Q response time 2	2	S	U16	
40533	9E55	Q(U) mode	2	-	U16	0 : P lock-in lock-out Disable 1 : P lock-in lock-out Enable
40534	9E56	Q(U) Q 1	2	%Pn	U16	0-60
40535	9E57	Q(U) Q 1 phase	2		U16	1: Lag 2: Lead
40536	9E58	Q(U) U 1	2	0.1V	U16	100-300V
40537	9E59	Q(U) Q 2	2	%Pn	U16	0-60
40538	9E5A	Q(U) Q 2 phase	2		U16	1: Lag 2: Lead
40539	9E5B	Q(U) U 2	2	0.1V	U16	100-300V
40540	9E5C	Q(U) Q 3	2	%Pn	U16	0-60
40541	9E5D	Q(U) Q 3 phase	2		U16	1: Lag 2: Lead
40542	9E5E	Q(U) U 3	2	0.1V	U16	100-300V
40543	9E5F	Q(U) Q 4	2	%Pn	U16	0-60
40544	9E60	Q(U) Q 4 phase	2		U16	1: Lag 2: Lead
40545	9E61	Q(U) U 4	2	0.1V	U16	100-300V
40546	9E62	Q(U) Q response time	2	S	U16	0~60S
40547	9E63	Lock In Pn	2	%Pn	U16	
40548	9E64	Lock Out Pn	2	%Pn	U16	
40549	9E65	CosPhi Lock In Un	2	0.1V	U16	0-300V 且大于 CosPhi Lock Out Un
40550	9E66	CosPhi Lock Out Un	2	0.1V	U16	0-300V

## (4) Internal parameter

Register Address	HEX	Register Name	Byte	Unit	Format	Description
40819	9F73	Start/stop command	2		U16	Start: 0; Stop: 1

## (5) Energy management parameter

Register Address	HEX	Register Name	Byte	Unit	Format	Description
40900	9FC4	BatteryModel	2		U16	0:No battery 1:Battery simulator

						2:Dyness(Default) 3:Pylon
40901	9FC5	Charge/Discharge Power Reference	2	0.1Pn%	S16	When BatteryModel set to 1 (Battery simulator), must set this register
40902	9FC6	Battery simulator SOC	2	%	U16	Invisible in website or APP, internal use
40903	9FC7	EPS limit SOC	2	%	U16	For Off grid mode(Value must < Grid limit SOC )
40904	9FC8	EPS enable	2		U16	Set available not Normal Mode 0: Disable EPS output 1: Enable EPS output
40905	9FC9	EPS voltage	2	0.1V	U16	
40906	9FCA	EPS frequency	2	0.01Hz	U16	
40907	9FCB	EMS mode	2		U16	0:Self-Consumption 1:Full Backup 2:Full Off-Grid 3:Force Time Use
40908	9FCC	Time 1 enable	2		U16	
40909	9FCD	Time 1 start time	2		U16	High byte:Hour Low byte:Minute For example 14:30 Register value should be 0xE1E
40910	9FCE	Time 1 end time	2		U16	High byte:Hour Low byte:Minute For example 15:30 Register value should be 0xF1E
40911	9FCF	Time 1 mode	2		U16	Charge or Discharge 0:Charge 1:Discharge
40912	9FD0	Time 1 power	2	0.1%Pn	U16	
40913	9FD1	Time 1 weekday	2		U16	Bit 0:Sunday Bit 1:Monday ... Bit 7:Saturday
40914	9FD2	Time 2 enable	2		U16	
40915	9FD3	Time 2 start time	2		U16	
40916	9FD4	Time 2 end time	2		U16	
40917	9FD5	Time 2 mode	2		U16	

40918	9FD6	Time 2 power	2	0.1%Pn	U16	
40919	9FD7	Time 2 weekday	2		U16	
40920	9FD8	Time 3 enable	2		U16	
40921	9FD9	Time 3 start time	2		U16	
40922	9FDA	Time 3 end time	2		U16	
40923	9FDB	Time 3 mode	2		U16	
40924	9FDC	Time 3 power	2	0.1%Pn	U16	
40925	9FDD	Time 3 weekday	2		U16	
40926	9FDE	Time 4 enable	2		U16	
40927	9FDF	Time 4 start time	2		U16	
40928	9FE0	Time 4 end time	2		U16	
40929	9FE1	Time 4 mode	2		U16	
40930	9FE2	Time 4 power	2	0.1%Pn	U16	
40931	9FE3	Time 4 weekday	2		U16	
40932	9FE4	RealTime Year	2		U16	For example 2021 Register value should be 2021
40933	9FE5	RealTime Date	2		U16	High byte:Month Low byte:Day For example 4-28 Register value should be 0x41C
40934	9FE6	RealTime Hour_Minute	2		U16	High byte:Hour Low byte:Minute For example 14:30 Register value should be 0xE1E
40935	9FE7	RealTime Secon_Weekday	2		U16	High byte:Second Low byte:Weekday For example 59s Wednesday Register value should be 0x3803 Note:Sunday is the first day of one week

## Safety Standard

Register Address	HEX	Register Name	Byte	Format	Description
30045	755D	Safety type	2	U16	Standard Number [1-29]
40046	9C6E	Custom Standard	2	U16	0: Safety Standard 1: Custom Standard

Standard Number	Description in Protocol / Standard Name	City / Country
1	AU AS/NZS 4777.2:2015	Australia
2	NZ AS/NZS 4777.2:2015	New Zealand
3	CN NB/T 32004:2018	China
4	EN 50549-1:2019	Europe / Global
5	NL EN 50549-1:2019	Netherland
6	UK G98-1	United Kingdom
7	UK G99-1	United Kingdom
8	DE VDE-AR-N 4105:2018	Germany
9	BR ABNT NBR 16149:2013	Brazil
10	Mexico	Mexico
11	CN GB/T 37408:2019	China
12	EN 50549-2:2019	Global
13	IEC 61727	Global
14	PL EN 50549-1:2019	Poland
15	VN IEC 61727:2004	Vietnam
16	LK IEC 61727:2004	Sri Lanka
17	IT CEI 0-21:2019	Italy
18	MA IEC 61727:2004	Morocco
19	AR IEC 61727:2004	Argentina
20	IT CEI 0-21:2019 ARetti	Italy
21	Italy 03	Italy
22	ZA NRS 097-2-1:2017	South Africa
23	BE C10/11:2019	Belgium
24	DK1 EN 50549-1:2019	Denmark (Western)
25	DK2 EN 50549-1:2019	Denmark (Eastern)
26	IE EN 50549-1:2019	Ireland
27	CL IEC 61727:2004	Chile
28	RO EN 50549-1:2019	Romania
29	HU EN 50549-1:2019	Hungary
30	UL 1741:2010	North America
31	AU A AS/NZS 4777.2:2020	Australia
32	AU B AS/NZS 4777.2:2020	Australia
33	AU C AS/NZS 4777.2:2020	Australia
34	NZ 20 AS/NZS 4777.2:2020	New Zealand
35	IT CEI 0-16:2019	Italy
36	ES UNE 206007-1:2013	Spain

## Fault Code

Register Address	HEX	Register Name	Byte	Format	Description
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30117	75A5	Fault code	2	U16	(V1.0) Fault Code [1-25]
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Fault Code	Fault Description
1	MCU Fault
2	Current sensor fault
3	GFCI device fault
4	Relay fault
5	PV voltage high fault
6	ISO fault
7	GFCI fault
8	Temperature over fault
9	No utility fault
10	Grid voltage over fault
11	Grid frequency over fault
12	DCI over fault
13	EEPROM fault
14	Main and voice MCU communication fault
15	BUS voltage high fault
16	BUS voltage low fault
17	DRM S9 fault
18	DRM S0 fault
19	PE Connection missing
20	Bus voltage unbalance Bus
21	BMS communication fail
22	CT is not connected
23	CT reverse connection
24	Battery is not connected
25	Backup load over voltage

## Warning Code

Register Address	HEX	Register Name	Byte	Format	Description
30118	75A6	Warning code	2	U16	(V1.0) Warning Code [1-19]

Warning Code	Warning Description
1	PV1 over current
2	PV2 over current
3	PV3 over current
4	PV4 over current

5	PV1 under voltage
6	PV2 under voltage
7	PV3 under voltage
8	PV4 under voltage
9	BUS over voltage
10	BUS under voltage
11	INV over current
12	ISO
13	Grid peak over voltage
14	FW update
15	PE connection missing
16	Grid voltage consistency warning
17	Fan abnormal
18	Backup load overload warning
19	SPD failure warning

#### 4. MAPPING EXAMPLE

Example	Bytes	Corresponding Value
Device Address	1	0x01
Function Code	2	0x03
Register Address	2	0x75 0x3A
Read Length	2	0x00 0x10
CRC Value	2	0x7E 0x07



## 5. CONTACT

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