

modbus funcode:
Read Registor data is only 03
Write registor is only 06

Terminal: RS+, RS-

Register Address:

для перехода от номера параметра к номеру регистра Модбас нужно к номеру параметра прибавить 40001 в десятичной системе
т.е.параметр P107 (разгон) имеет номер регистра 40108

для управления можно использовать регистр с адресом 48193 (2000H в десятиной системе будет 8192. Прибавляем 40001 и получаем 48193)

для задания частоты можно использовать регистр с адресом 48194

- 1) 2000H : Stop/Run
- 2) 2001H :

Freq. Setting (0-400.0HZ) , P101=5 freq. from 2001H

- 3) Freq. Pr.No is the Register Address, for example:
 - a) Function Code P003(Current), Address: 3 (Hex. code 00H 03H)
 - b) Function CodeP004 (speed), Address: 4 (Hex. code 00H 04H)
 - c) Function CodeP005(DCV), Address: 5 (Hex. code 00H 05H)
 - d) Function CodeP009(Output Voltage), Address: 9 (Hex. code 00H 09H);
1 digit after decimal point, unit V
 - e) Function CodeP100 (main freq), Address: 100 (Hex. code 00H 64H)
 - f) Function CodeP101 (freq. ref), Address: 101 (Hex. code 00H 65H)
 - g) Function CodeP107 (acc. time) , Address: 107 (Hex. code 00H 6BH)
 - h) Function CodeP108 (dec. time) , Address: 108 (Hex. code 00H 6CH)

Data Address	Bit Address	Content	Read write	Addres s
2000H	BIT1~BIT0	00B: no action 01B: stop	write	2000H

(F1.02=2)		10B: start 11B: JOG start		
	BIT2~BIT3	00B: no action 01B: Rev 10B: Fwd 11B: change direction	write	
	BIT4	0B: no action 1B: reset alarm	write	
	BIT5~BIT15	reserved		
2001H (F1.01=5)	BIT0~BIT15	Freq. Command 00000~40000 H3000: 2 digit after decimal point, unit Hz	write	2001H
		Freq. Command 0000~4000 NZ100PLUS : 1 digit after decimal point, unit Hz		
F0.01	Freq. setting	H3000: 2 digit after decimal point, unit Hz	read only	0001H
F0.02	Output freq.	NZ100PLUS : 1 digit after decimal point, unit Hz	read only	0002H
F0.03	Output current	1 digit after decimal point, Unit : A	read only	0003H
F0.04	speed	0 digit after decimal point, unit : r/min	read only	0004H

F0.09	output voltage	1 digit after decimal point, Unit : V	read only	0009H
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F0. 27	Alarm code		read only	001BH
	0: no error 2: OC1 3: OC2 4: OC3 5: OU1 6: OU2 7: OU3 8: POF 9: LU 10: OL2 11: OL1 14: OH 15: EF 16: CO ;24:LP 27: HP;28: LL 29: TE 31: 20			
F0. 28	0: STOP; 1:FWD; 2: REV		read only	001CH
F7. 03	Communication burnout	0: No treatment 1:Alarm not stop 2:Alarm and stop	writ e	02BFH
F7. 04	Communication disconnection time setting	0.0 -100.0 S	writ e	02C0H

ASCII Mode:

Firstly setting: P101 = 5(freq. source);
P102 = 2(control mode);
P700 = 1(baud rate 9600);
P701 = 0(8N1 FOR ASCII)
P702 = 1 (Address)

1、 set freq. ref:

write 50.0HZ (01F4H) to address 2001H

send char. HEX: 3A 30 31 30 36 32 30 30 31 30 31 46 34 E3 43 0D 0A

receive char. HEX: 3A 30 31 30 36 32 30 30 31 30 31 46 34 E3 43 0D 0A

2、 set run command

write 02H to address 2000H

send char. ":010620000002 "CR LF

Send character HEX : 3A 30 31 30 36 32 30 30 30 30 30 30 32 44 37 0D 0A

Receive character HEX: 3A 30 31 30 36 32 30 30 30 30 30 30 32 44 37 0D 0A

3、 Send Stop command

write 01H to 2000H

send char. ":010620000001 "CR LF

send char. HEX: 3A 30 31 30 36 32 30 30 30 30 30 30 31 44 38 0D 0A

receive char. HEX: 3A 30 31 30 36 32 30 30 30 30 30 30 31 44 38 0D 0A

4、 P101=3

write 03H to 0065H

SEND : 3A 30 31 30 36 30 30 36 35 30 30 30 33 39 31 0D 0A

BACK : 3A 30 31 30 36 30 30 36 35 30 30 30 33 39 31 0D 0A

write 05H to 0065H

SEND : 3A 30 31 30 36 30 30 36 35 30 30 30 35 38 46 0D 0A

BACK : 3A 30 31 30 36 30 30 36 35 30 30 30 35 38 46 0D 0A

RTU example:

Firstly setting: P101 = 5(freq. source);

P102 = 2(control mode);

P700 = 1(baud rate 9600);

P701= 3 (8N1 FOR RTU)

P702= 1 (Address)

RTU mode:

1、 freq Set:

write 50.0HZ (01F4H) to 2001H

send: 01 06 20 01 01 F4 CRCL CRCH

reply: 01 06 20 01 01 F4 CRCL CRCH

2、 send run command

write 02H to 2000H

send: 01H 06H 2000H 00H 02H 03H(CRCL) CBH(CRCH)

reply: 01H 06H 2000H 00H 02H 03H(CRCL) CBH(CRCH)

3、 send stop command

write 01H to 2000H

send: 01H 06H 2000H 00H 01H 43H(CRCL) CAH(CRCH)

reply: 01H 06H 2000H 00H 01H 43H(CRCL) CAH(CRCH)

4、 write acc. Time P1.07=20.0S

write 200 (C8H) to 107 (6BH)

send: 01H 06H 00H 6BH 00H C8H F9H(CRCL) 80H(CRCH)

reply: 01H 06H 00H 6BH 00H C8H F9H(CRCL) 80H(CRCH)