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1. P1R11FA10 - 001 : User manual

1.1 MODBUS mapping



The following table shows the mapping of the MODBUS protocol WORD that you can be read. All the WORD must be read with the "Holding Registers".

Modbus Word Address	HA548.04 parameter description	HA548.04 Address	Access type R/W
0001	Progressive number of refresh cycles	n.d.	R
0002	Error numbers of the communication toward the HA548.04	n.d.	R
0003	Co1 Torque threshold	FC28	R/W
0004	Basic differential speed (dn 0)	FC2A	R/W
0005			
0006	Co 2 Torque threshold	FC2E	R/W
0007	Differential modulation speed (dn 1)	FC30	R/W
0008			
0009	Co 2 Torque threshold	FC34	R/W
0010	Safety differential speed (dn 2)	FC36	R/W
0011			
0012	Calculated torque of the screw	FC4E	R
0013	Temperature reading to the analog input IA2	FC50	R
0014	Absolute differential ratio cylinder / screw (long)	FC52	R
0015			
0016	Screw speed	FC56	R
0017			
0018	Cylinder speed	FC5A	R
0019			
0020	Couple read to the analog input IA1	FC5E	R
0021	Torque for screw torque calculation	FC60	R
0022	Torque differential for predictive calculation	FC62	R
0023	Couple predictive purposes	FC64	R
0024	Adjusting differential speed set point	FC66	R
0025			
0026	Inputs state	FC6A	R
0027	Outputs state	FC6C	R
0028			
0029			
0030			
0031			
0032			

1.2 MODBUS settings

The default settings is of the MODBUS/RTU module is:

- Mode = Slave
- Protocol = RTU
- Card Id = 1
- Baud-rate = Selectable (See the CN2 paragraph)
- Stop-bit = 1
- Parity = none
- Response-delay = 5 milliseconds



Accepted modbus requests

Type request	Description
3	Read Holding Register
6	Write Single Holding Register
16	Write Multiple Holding Register

1.3 HA548.04 setup data setting

Enter to the HA548.04 setup and to set the following parameters:

Code	Description	Value
rS	RS 485 Enable	1
br	RS 485 Speed transmission	9600
db	Number of the data bits	8
Sb	Number of the stop bits	1
PA	Paruty bit	0
rc	Delay of the character transmission	5
CI	Address code	1

1.4 Diagnostic

The 4 leds L1, L2, L3, L4 shows the diagnostic:

- L1 = Transmission to HA548.04 in progress
- L2 = Receive from the HA548.04 in progress
- L3 = Modbus message in working
- L4 = Configuration error



For reset the communication errors, press the RESET button

2. Testing with PC program

To test the modbus functionality on the PC, you must use a program "Modbus RTU Master".
You can use the ModScan32 program of WinTech (www.win-tech.com)



Connect properly the USER port (CN2 pins 4A, 5A, 5B) to the serial port of the PC, and then set the dips SW2.1-5 OFF e SW2.6 ON.

2.1 Setup ModScan32 program

Press to menù Connection → Connect:

- Select the serial port on your PC (eample COM2)
- then in the Configuration section, to set Modbus communication data (Baudrate can be selected as described under CN2)
- then in Protocol Selection, to set the data as in the following picture



Length must not exceed the value of 32, otherwise it must be done a reboot of the instrument.

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