Page no.: 1/3

B-AO8-01 - 8 analog outputs

bit address = 16 * (word address - 1) + 1

Supported Modbus functions:

- 01 Read Coils read bits
- 02 Read Discrete Inputs read bits
- 03 Read Holding Registers read words
- 04 Read Input Registers read words
- 15 Write Multiple Coils write bits
- 16 Write Multiple Registers write words

Register type:

R – register is read only

W - register is write only

RW - register is read/write

RWE (default value) – register is read from EEPROM, written to EEPROM, default value in brackets

name	address	type	description	note
value of channel AO1	1	RW	value range is 0000hex – 0FFFhex (0dec – 4095dec)	
value of channel AO2	2	RW	0000hex - 0V 0FFFhex - 10V	
value of channel AO3	3	RW		
value of channel AO4	4	RW		
value of channel AO5	5	RW		
value of channel AO6	6	RW		
value of channel AO7	7	RW		
value of channel AO8	8	RW		
firmware version	1000	R	firmware version	FW version is always the same as this document version
module ID	1001	R	module identification number	module ID is F00Fhex

Page no.: 2/3

	1			
status LSB	1002 LSB	RW	module status – low byte bit 0 – enable write to EEPROM bit 1 – enable SW reset bit 4 – EEPROM initialization bit 5 – disable write to all RW registers	initialization: 1) start device in init mode (address DIP switch is all high - 255 - at start) 2) set DIP switch to any other value than 255 3) set status LSB bit 4, initialization is indicated in status MSB bit 2 SW reset: set bit 1, then write any non-zero value to real 1002
status MSB	1002 MSB	R	module status – high byte bit 0 - 0 normal mode	bit 1 indication that command given by bit 0 in status LSB was accepted bit 2 indication that command given by bit 4 in status LSB was accepted bit 3 indication that command given by bit 5 in status LSB was accepted bit 5 indication that command given by bit 5 in status LSB was accepted
address baud rate	1003 1004	RWE (1) RWE (13)	modbus address of the module 10dec 1 200bps 11dec 2 400bps 12dec 4 800bps 13dec 9 600bps 14dec 19 200bps 15dec 38 400bps 16dec 57 600bps 17dec 115 200bps	registers change immediately, communication parameters change after restart (data must be written to EEPROM)
serial port settings	1005	RWE (0)	bits 0, 1 - parity 0 none 1 even 2 odd bit 2 - stopbits 0 one stopbit 1 two stopbits	
up time	1006 1007	R	time in seconds since last restart or power up	
serial number	1008 1009	RWE (unique)	module serial number, can be written if it is zero	not implemented yet
EEPROM writes	1010	R	EEPROM writes counter	counter 0 FFFEh, counting stops at value FFFEh

B-A08-01

v102_01 Page no.: 3/3 ISO 9001

SW reset	1011	RW	if status LSB bit 1 (and status MSB bit 5) is set, writing non-zero value causes SW reset	
dip switch	1100	R	actual DIP switch value	