

QUALITY ELECTRONIC DESIGN



MODBUS REGISTER MAP

QA-8DO

REMARKS:

- Modbus connections: A+ and B-;
- Modbus Register reference: with reference to the logical address, for ex. 40010, corresponds to physical address n°9 as per Modbus RTU standard; •
- Modbus functions supported: 3 (Read multiple registers), 6 (Write single), 16 (Write multiple). .

	Register Name	Comment	Register Type	R/W	Default Value	Modbus Address
	machine_id	Machine ID	unsigned short	R	27	40001
	fw_ver	Firmware version	unsigned short	R	XXX	40002
	status	bit[0]=fail eeprom calibration; bit[1]=fail eeprom configuration; bit[2] = fail hw; bit[3]=fail log; bit[4]=fail rtc, bit[5]=fail eeprom; bit[6]=fail fram_init; bit[7]=fail fram	unsigned short	R	0	40003
	digital_output_eff	(bit 0 = dout1 bit 7 = dout8) real output state	unsigned short	R		40005
-	dip	DIPSW status : bit 0-7=dip switch status	unsigned short	R		40006
	digital_output_imp	(bit 0 = dout1 bit 7 = dout8)	unsigned short	R/W		40011
	timeout_comm	timeout [sec*10], after wich output are switched to dout_init_state. (0= disabled)	unsigned short	R/W	0	40079
	dout_init_state	: bit 0 dout1 bit 7 dout8; bit14=1 enable timeout; bit15=1 enable FRAM for DOUT	unsigned short	R/W	0	40093
	modbus_addr_parity_stopbits	: MSB = address (1); LSB = bit[1-0] parity = none/odd/even; bit[2] =stopbit 1 or 2	unsigned short	R/W	256	40094
	modbus_baudrate	: value 0=1200,1=2400,2=4800,3=9600,4=19200,5=38400, 6=57600,7=115200	unsigned short	R/W	3	40095
	command	SAVE_TARAT = 0XC1B0; SAVE_SETT = 0XC1C0; LEGGIDIP = D166; RESET = C1A0	unsigned short	R/W	0	40121
ດ	uid_l	Calibration file name	unsigned short	R/W		40124
0	uid_m	Calibration file name	unsigned short	R/W		40125
	uid_h	Calibration file name	unsigned short	R/W		40126
	hw_version	Hardware version	unsigned short	R/W		40127

Upgrade FIRMWARE

The QA-8DO is designed to upgrade the firmware via the USB port using a standard pen drive where the file will be placed. The firmware will allow you to implement the functionality of the card and correct any anomalies that may occur. In order to upgrade the firmware simply, remove power from the module, insert the pen drive with the file, restore power, at this point the card will automatically discharge the file and update the firmware without altering the configuration loaded during programming. During the update phase the LED light will be intermittent FAIL.

QA-8DO



ENGLISH

03 2017