



MODBUS REGISTER MAP QA-12DI-4DO

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 Holding Registers).

QA-12DI-4DO MODBUS REGISTER MAP

Table with 7 columns: Register Name, Comment, Register Type, R/W, Default Value, Modbus Address. Rows include Machine Id, Firmware Version, Status, Digital input, Digital output eff (\*), Dip, Digital output imp, Overflow, Totalizer din 1-12, Threshold din 1-10 (\*).



**MODBUS REGISTER MAP**
**QA-12DI-4DO**

Register Name	Comment	Register Type	R/W	Default Value	Modbus Address
Threshold din 11 (*)	Threshold used for logic output input	unsigned long	R/W	0	40071
					40072
Threshold din 12 (*)	Threshold used for logic output input	unsigned long	R/W	0	40073
					40074
Totalizer mode	: bit 0 falling/rising	unsigned short	R/W	0	40079
Filter din 1	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40080
Filter din 2	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40081
Filter din 3	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40082
Filter din 4	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40083
Filter din 5	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40084
Filter din 6	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40085
Filter din 7	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40086
Filter din 8	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40087
Filter din 9	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40088
Filter din 10	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40089
Filter din 11	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40090
Filter din 12	Number of samples for the filter (every 41us)	unsigned short	R/W	1	40091
Up down mode	: bit 0 up/down tot1, ..., bit 11 up/down tot12	unsigned short	R/W	0	40092
Dout init state	: bit 0 dout1 ... bit 3 dout4; bit14=1 vale FRAM per count; bit15=1 vale FRAM per DOUT	unsigned short	R/W	0	40093
Modbus addr parity stopbits	: MSB = indirizzo (1); LSB = bit[1-0] parity = none/odd/even; bit[2] =stopbit ½	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	5	40095
Command	SAVE_TARAT = 0XC1B0; SAVE_SETT = 0XC1C0; LEGGIDIP = D166; RESET = C1A0;	unsigned short	R/W	0	40121
Command param 2		unsigned short	R/W	0	40123
uid_l	Calibration file name	unsigned short	R/W		40124
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-12DI-4DO 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 FAIL light will be intermittent.

(\*): option available for future use.

