



MODBUS REGISTER MAP

QE-8DI

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).

Register Name	Comment	Register Type	R/W	Default Value	Modbus Address
Machine Id	Machine ID	unsigned short	R	34	40001
Firmware Version	Firmware version	unsigned short	R	X	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	unsigned short	R	0	40003
Digital input	(bit 0 = din1 ... bit 7 = din8)	unsigned short	R		40004
Dip	DIPSW status : bit 0-1=dip switch status	unsigned short	R		40006
Overflow	Overflow/Underflow bit 0 tot1, ..., bit 7 tot8	unsigned short	R/W	0	40012
Totalizer din 1	Totalizer 1	unsigned long	R/W	0	40015 40016
Totalizer din 2	Totalizer 2	unsigned long	R/W	0	40017 40018
Totalizer din 3	Totalizer 3	unsigned long	R/W	0	40019 40020
Totalizer din 4	Totalizer 4	unsigned long	R/W	0	40021 40022
Totalizer din 5	Totalizer 5	unsigned long	R/W	0	40023 40024
Totalizer din 6	Totalizer 6	unsigned long	R/W	0	40025 40026
Totalizer din 7	Totalizer 7	unsigned long	R/W	0	40027 40028
Totalizer din 8	Totalizer 8	unsigned long	R/W	0	40029 40030
Totalizer mode	: bit 0 falling/rising tot1, ..., bit 7 falling/rising tot8	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
Up down mode	: bit 0 up/down tot1, ..., bit 7 up/down tot8	unsigned short	R/W	0	40092
Non-volatile memory	:bit14=1 vale FRAM per count	unsigned short	R/W	0	40093
Modbus addr parity stopbits	: MSB = address (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; READ DIP = 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

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FIRMWARE Upgrade

The QE-8DI can upgrade the firmware via the USB port using a standard pen drive where the new file will be placed.

The firmware will allow you to implement new functionalities 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. The new firmware will be uploaded without altering the configuration loaded during programming. During the update phase the LED FAIL light will be blinking.

