MODBUS REGISTER MAP QE-8DI

ADDRESS LIST BASE 1 (40001)
MICROPROCESSOR'S REGISTERS BASE 0 (0000)
EXAMPLE _ to read register 40003 (address device = 1)
Tx: <01> <03> <00> <02> <00> <01> <25> <CA>

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**

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Register Name	Comment	Register Type	R/W	Default Value	Modbus Address
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**
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**

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.