

ENGLISH

1 GETTING STARTED

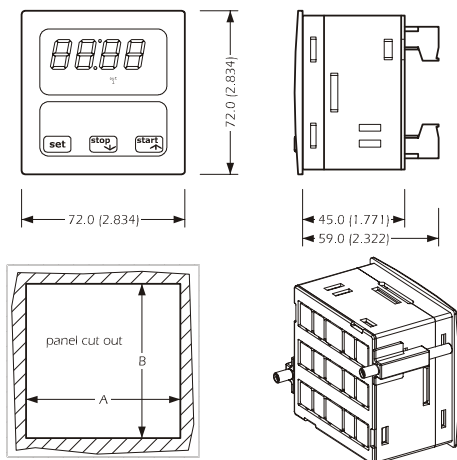
1.1 Important

Read these instructions carefully before installing and using the instrument and follow all additional information for installation and electrical connection.

Keep these instructions close to the instrument for future consultations.

1.2 Installing the instrument

Panel mounting, with the screw brackets supplied by the builder; dimensions in mm (in).

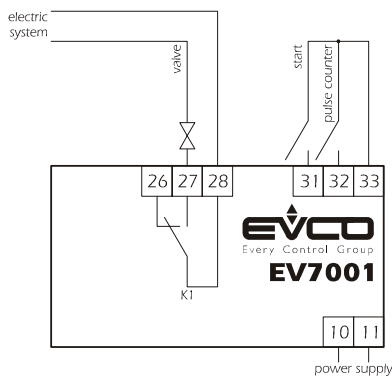


DIMENS.	MINIMUM	TYPICAL	MAXIMUM
A	68.0 (2.677)	68.0 (2.677)	68.7 (2.704)
B	68.0 (2.677)	68.0 (2.677)	68.7 (2.704)

Additional information for installation:

- 45 (1.771) is the maximum depth with spring terminal blocks
- 59 (2.332) is the maximum depth with extractable terminal blocks
- the maximum panel thickness must be 4 mm (0.157 in)
- position the brackets as indicated; moderate the clamping torque, in order not to damage box and brackets
- working conditions (ambient temperature, humidity, etc.) must be between the limits indicated in the technical data
- do not install the instrument close to heating sources (resistances, hot air ducts, etc.), locations subject to direct sunlight, rain, humidity, dust, mechanical vibrations or bumps, devices provided with big magnetos (big speakers, etc.)
- according to the safety norms, the protection against electrical parts must be ensured by a correct installation of the instrument; the parts that ensure the protection must be installed so that you can not remove them if not by using a tool.

1.3 Wiring diagram



PAY ATTENTION:

- if the instrument is supplied with 24 Vac, protect terminal 10 or terminal 11 with a fuse (160 mA T).

Additional information for electrical connection:

- do not operate on the terminal blocks with electrical or pneumatic screwdrivers
- if the instrument has been moved from a cold to a warm location, the humidity will condense on the inside; wait about an hour before supplying the instrument
- test the working power supply voltage, working electrical frequency and working electrical power of the instrument; they must correspond with the local power supply
- disconnect the local power supply before servicing the instrument
- do not use the instrument as safety device
- for repairs and information concerning the instrument please contact Evco sales network.

2 OPERATION

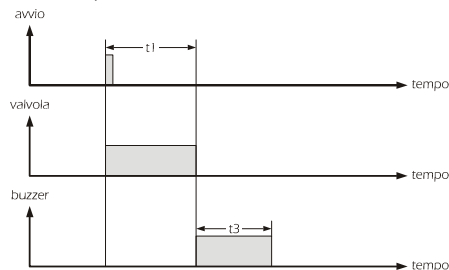
2.1 Preliminary information

After a switch on possible counts will be cleared and the valve will be switched off.

The number of pulses corresponding to a liter of water depends on parameter t5.

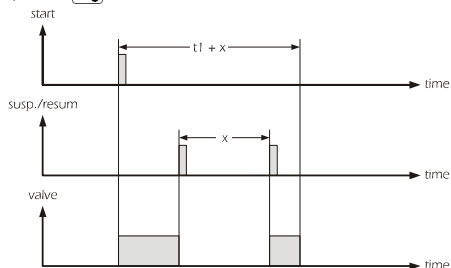
2.2 Count start

- make sure no procedure is running
- press **start** or **stop** or input start: the display will show the count of the number of liters of water you have set with parameter t1



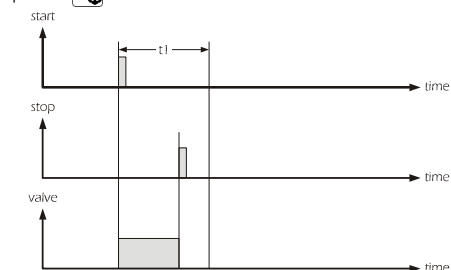
2.3 Suspending/resuming the count

- press **start**



2.4 Count stop

- press **start** 2 s.



2.5 Silencing the buzzer

- make sure no procedure is running
- press a button (the first pressure of the button does not provoke its usual effect).

3 SETTINGS

3.1 Setting the number of liters of water to count

- make sure no count and no procedure is running
 - press **set** LED out 1 will flash
 - press **start** or **stop** in 15 s
 - press **set** or do not operate 15 s.
- It is also possible to set the number of liters of water to count through parameter t1.

3.2 Setting configuration parameters

To gain access to the procedure:

- make sure no count and no procedure is running
- press **start** and **stop** per 4 s: the display visualizzerà "PA"
- press **set**
- press **start** or **stop** in 15 s to set "19"
- press **set** or do not operate 15 s.
- press **start** and **stop** 4 s: the display will show "t1".

To select a parameter:

- press **start** or **stop**

To modify a parameter:

- press **set**
- press **start** or **stop** in 15 s
- press **set** or do not operate 15 s.

To quit the procedure

- press **start** and **stop** 4 s or do not operate 15 s.

One suggests switching off the power supply of the instrument after the modification of the parameters.

3.2 Restoring the default value of the configuration parameters

- make sure no count and no procedure is running
- press **start** and **stop** 4 s: the display will show "PA"
- press **set**
- press **start** or **stop** in 15 s to set "743"
- press **set** or do not operate 15 s
- press **start** and **stop** 4 s: the display will show "dEF"
- press **set**
- press **start** or **stop** in 15 s to set "149"

- press **set** or do not operate 15 s: the display will show "dEF" flashing 4 s, afterwards it will quit the procedure
- switch off the power supply of the instrument.

4 SIGNALS

4.1 Signals

LED	MEANING
out	LED valve if it is lit, the valve will be switched on if it flashes, the modification of the number of liters of water to count will be running

5 TECHNICAL DATA

5.1 Technical data

- Box: self-extinguishing grey.
- Frontal protection: IP 65.
- Connections: extractable terminal blocks or spring terminal blocks (power supply, input and output).
- Working temperature: from 0 to 55 °C (32 to 131 °F, 10 ... 90% of relative humidity without condensate).
- Power supply: 230 Vac, 50/60 Hz, 2 VA; 24 Vac by request.
- Buzzer: included.
- Digital inputs: 2 (pulses counter and start) for NO/NC contact (free of voltage, 5 V 1 mA).
- Working range: from 0 to 9,990 l.
- Resolution: 0.5 l/1 l.
- Relay outputs: one 5 A @ 250 Vac relay (change-over contact) for the management of the valve.

6 CONFIGURATION PARAMETERS

6.1 Configuration parameters

PARAM.	MIN.	MAX.	U.M.	DEF.	LITERS COUNTER
t1	(1)	(2)	l	10	number of liter of water to count
t3	00:00	99:59	min:s	00:05	duration of the activation of the buzzer to the end of the count
t5	0,1	100	...	10	number of pulses corresponding to a liter of water 0.1 = 1 pulse will correspond to a 10 l of water
t7	0	1	...	0	kind of count 0 = count down 1 = count up
t8	0	1	...	0	display colour 0 = green 1 = red
t9	0	1	...	0	kind of contact pulses counter input 0 = NO (input active when moving from open contact to closed contact) 1 = NC (input active when moving from closed contact to open contact)
t10	0	1	...	0	kind of contact start input 0 = NO (input active when moving from open contact to closed contact) 1 = NC (input active when moving from closed contact to open contact)
t11	0	1	...	0	resolution 0 = 1 l 1 = 0.5 l

(1) the value depends on parameter t5 or on parameter t11:

- 0 if parameter t11 has value 0
- 0.5 if parameter t11 has value 1 and parameter t5 has a value greater or equal to 2
- 10 if parameter t5 has value 0.1

(2) the value depends on parameter t5 or on parameter t11:

- 9,990 if parameter t11 has value 0
- 999.0 if parameter t11 has value 1 and parameter t5 has a value greater or equal to 2
- 9,990 if parameter t5 has value 0.1.