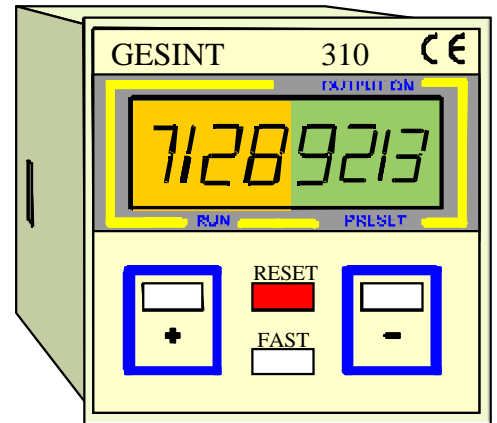# FLOWCONTROLLER PRESELECTOR

CONTROLLER MOD. C-310

This device is a pulse counter, connected to a flow sensor with FIP impulses (FLS-100) or GF(MK515), or others similar, can be used to measure and/or regulate the quantity of water or other products flowing through a pipe.

TECHNICAL CHARACTERISTICS

SYSTEM	Microprocessor
KIND OF MEMORY	EEPROM (without battery) with more than 50 million read/write cycles lifetime
DISPLAY	8 digit LCD, backlighted, indicating pre-selection values and output state. (4 digits for the pre-selection and 4 digits for the counter)
COUNT INPUT OF FLS100	Square wave 8-12 Vdc Max. speed 5 kHz of the flowcontroller
COUNT INPUT OF MK515	Sinusoidal wave Max 500 Hz
OUTPUT 1	1 contact SPDT 4 Amp Max. 220 Vac (count end)
OUTPUT 2	1 output push-pull, advisable load resistance 5K6 (24 Vdc) Programmable pulse duration through the dip switch 1,25 - 20 - 60 - 100 ms
POWER	24 Vac 4,5 W (others available on demand)
AUX POWER	12 Vdc 50 mA
WORK TEMPERATURE	-10º +55º C
MATERIAL CONTAINER	Fireproof Policarbonate
PROTECTION CLASS	IP-65
WEIGHT	210 gr
DIMENSIONS	48 x 48 x 105 mm (45 x 45 Cut-out)
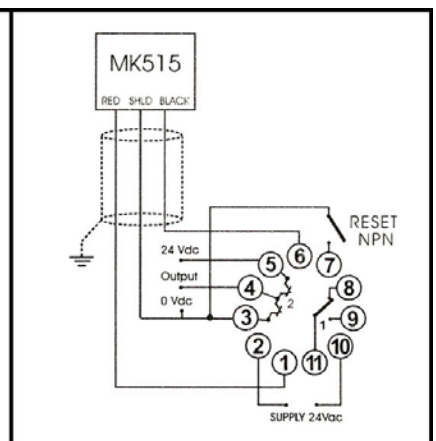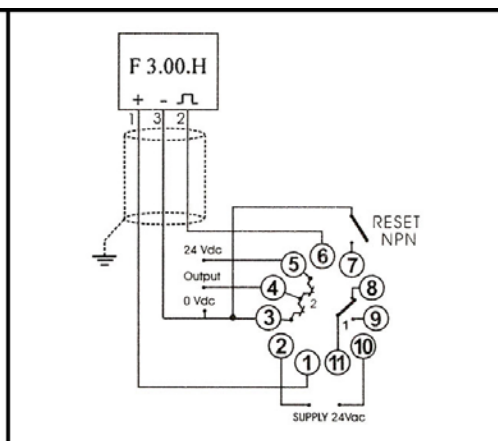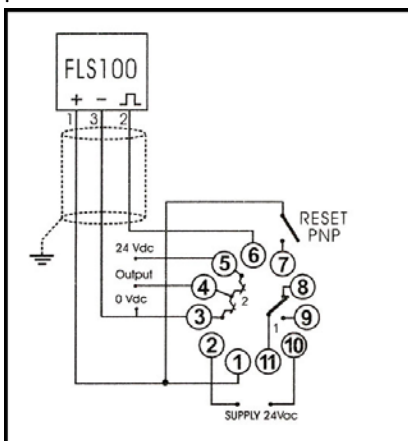
-PLANNING OF THE PRESET -

| + | "Add" button. | — | "Minus" button. |
| RESET | Resets count value |

$\left(\boxed{+} \ o \ \boxed{-} \right) \boxed{FAST}$ To change the pre-selection value quickly press the "FAST" and $\boxed{+}$ or $\boxed{-}$ keys at the same time.

-SETTING "KF" CALIBRATION FACTOR -

FAST
2 sec

To enter in the "KF" setting press "FAST" key during 2 sec.. When "PR" appears on display release the "FAST" key and press the keys $\boxed{+}$ or $\boxed{-}$ until the required value of "KF" shows on display.
To leave the setting press the "FAST" key.
Look at the flowcontroller technical documentation to find out the right "KF" value.

-CONFIGURATION "SETTING AND READING PRESET"–

FAST
6 sec

Press $\boxed{FAST}$ key during 6 sec. When $\boxed{OOOO}$ appers on display relase the fast key and press the keys $\boxed{+}$ or $\boxed{-}$ to set the visulization to one of the next mode:
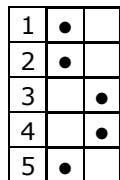
$\boxed{OOO,O}$ If "KF" setting <u>XXX</u> pulses = 1 litre
(eg. If we want 1000 liters, we set 1000 and read 1000)

$\boxed{OO,OO}$ If "KF" setting <u>XXX</u> pulses = 10 litres
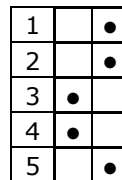(eg. If we want 1000 liters, we set 100 and read 1000)

$\boxed{O,OOO}$ If "KF" setting <u>XXX</u> pulses = 100 litre
(eg. If we want 1000 liters, we set 10 and read 1000)

-SETTING DIP SWITCHES-

1..5 .- Sensor type:
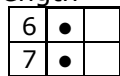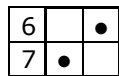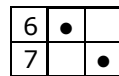
1	●	
2	●	
3		●
4		●
5	●	

MK515

1		●
2		●
3	●	
4	●	
5		●

FLS100 / F3.00.H

6-7 .- Setting pulse length

6	●	
7	●	

1,25 ms

6		●
7	●	

20 ms

6	●	
7		●

60 ms

6		●
7		●

100 ms

8 .- Key "fast"

8	●	

Locked

8		●
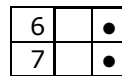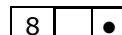
Open

9.- Frequency input

9	●	

Max 30 Hz

9		●

Max 5 KHz (high speed).

10.- Input 7

10	●	

NPN (MK 515 / F3.00.H)

10		●

PNP (FLS 100)

NOTE: The DIP switch pre-selection has to be carried out with the device unpowered.