



Made in Italy

LOGIC SP - STP - TP

WATER PASSAGE VARIABLE FREQUENCY DRIVE FOR THE CONTROL AND PROTECTION OF THE PUMP

Varies the number of motor revolutions of the pump depending on the water withdrawal by the system in order to maintain constant pressure and flow.

Allows to adjust the system pressure and the pump restart pressure.

Stops the pump in case of water shortage and protects it from dry running.

Is equipped with automatic restart in case of failure of anti-jamming function.

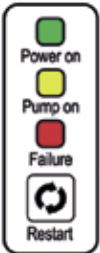
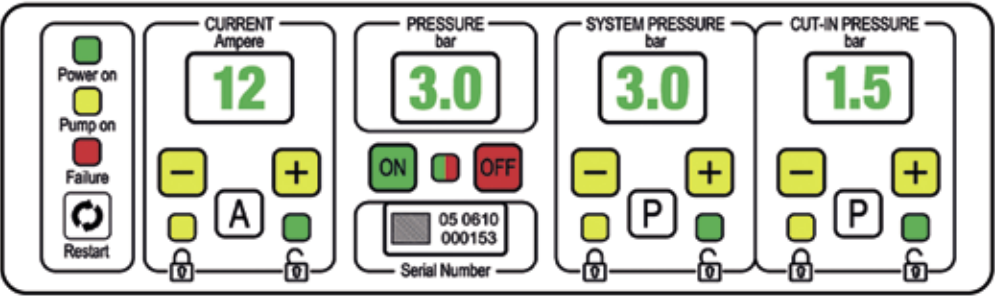
Ensures energy saving.

Can be installed on surface and submersible pumps.

No need for an expansion tank, check valve, filter and fittings.

Maintenance free.

CONTROL AND SETTING



POWER ON	Green led on	Device energized
PUMP ON	Yellow led on	Pump running
FAILURE	Red led blinking	Failure
RESTART	Button	Reset after failure
	Buttons	Keypad access and locking



SETTING THE VALUE OF THE CURRENT ABSORBED BY THE MOTOR

Read the value of the current in Amperes on the pump motor nameplate. Press the button **A** (green LED on) and set the value on the display using the **+** and **-** buttons (0,5 A steps).

Set the value by pressing the button **A** (yellow led on) to confirm the adjustment.

When the pump is running the real motor absorption value will appear on the display.

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MANOMETER	Indicates the real value of the system pressure.
SWITCH	Press the button ON (green led on) to start the pump and the button OFF (red led on) to turn it off.
IDENTIFICATION	Specific serial number and data matrix of the device.

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SETTING THE VALUE OF THE SYSTEM PRESSURE

Press the button **P** (green led on) and set the value on the display using the **+** and **-** buttons (0,5 bar steps).

After setting the desired value, press the button **P** (yellow led on) to confirm the adjustment.

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SETTING THE CUT-IN VALUE OF THE PUMP

Press the button **P** (green led on) and set the value on the display using the **+** and **-** buttons (0,1 bar steps).

After setting the desired value, press the button **P** (yellow led on) to confirm the adjustment.

INSTALLATION AND STARTUP

Install the device in vertical position directly on the pump or between the pump and the first tap.

Make all electrical connections, give power and wait a few seconds.

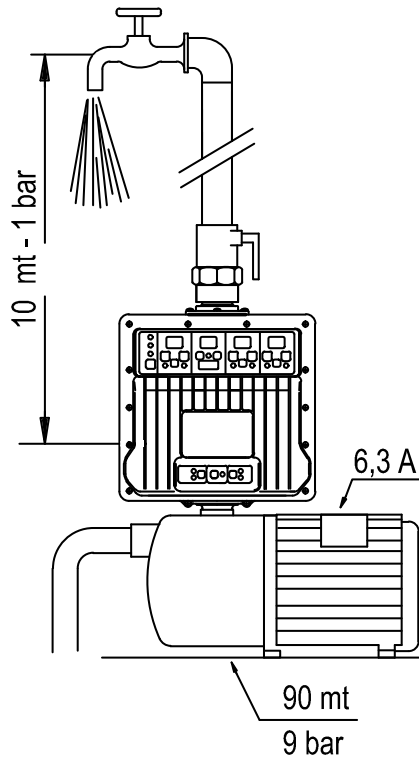
When the set-up is completed the factory-set current and pressure values will appear on the display (CURRENT 1,5 A - SYSTEM PRESSURE 3,0 bar - CUT-IN PRESSURE 1,5 bar), the Current display starts blinking and the real pressure value of the system appears on the Pressure display.

Set the current absorbed by the motor indicated on its nameplate. In order to adapt the system to the desired operation, it may be necessary to set different pressure values from those set by the factory: system pressure 3 bar, cut-in pressure 1,5 bar.

Once the values are set, press the button ON (green LED on) to start.

When the pump is running, the real value of the current absorbed by the motor appears on the Current display. In the event of a temporary blackout, the device automatically resets itself when electricity returns.

EXAMPLE OF INSTALLATION



> CURRENT

Adjustment steps: 0,5 A up to 10 A - 1 A over 10 A.

Set the value immediately over the value of A indicated on the nameplate.

Example: motor current (on nameplate) 6,3 A → max 6,5 A.

> SYSTEM PRESSURE

Adjustment step: 0,5 bar.

Set the desired value provided that it is lower than the actual maximum pressure generated by the pump.

Example: maximum pump pressure 9 bar → max 8,5 bar.

> CUT-IN PRESSURE

Adjustment step: 0,1 bar

Set the desired value provided that it is at least ~0.5 bar higher than the pressure exerted by the water column.

Example: water column pressure 1 bar → min 1,5 bar.

AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the devices will automatically make 10 double attempts to rearm over the 24 hours following the failure, each lasting approximately 5 seconds to allow the pump and the system to reload if possible.

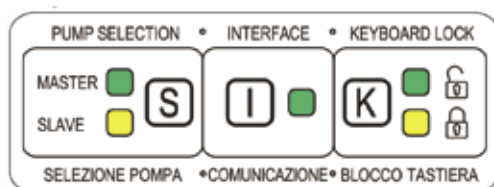
The user can try to rearm the devices at any time by pressing the Restart button.

ANTI-JAMMING FUNCTION

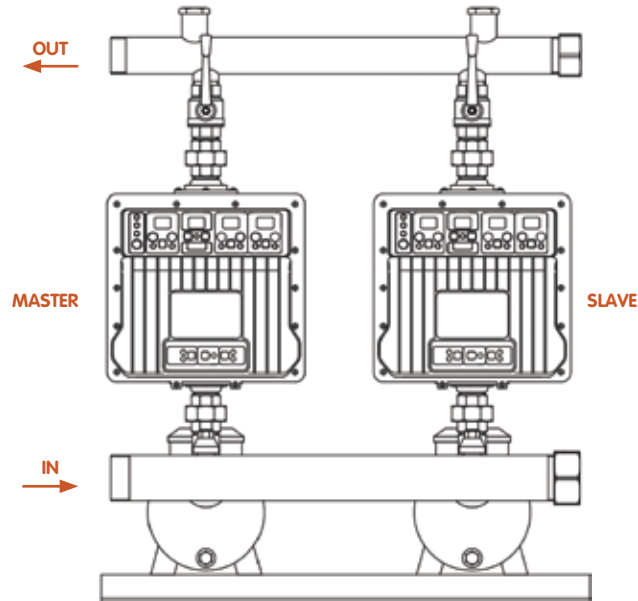
If for any reason the pumps remains idle for 24 consecutive hours, the device will shuts of the pump or for about 5 seconds without affecting the normal operation of the unit.

COMMUNICATION BETWEEN DEVICES

Each model of Presscontrol Evo Series in the "COM" version is standardly equipped with interface and communication cable to make pressure sets.



BOOSTER SETS



INSTALLATION AND STARTUP

Use the control and adjustment panel to set the current values (CURRENT) of all devices.

Use the communication panel to select the Master device and Slave devices.

To change the system pressure and restart pressure values (bar) of the devices, only act on the Master device even if the pump is running.

The system pressure and restart pressure values set on the Master device are automatically transferred to the Slave devices.

OPERATION

The Master device controls the Slave devices and manages the operation of the booster set.

Initially, the pump on which the Master device is installed will start first, but if the demand for water is such that this pump is unable to maintain the set system pressure value, then the second pump on which the Slave device is installed will automatically start.

Every time the pumps stop, it will be the second, third and/or fourth pump etc. to start first, depending on how many pumps are installed, to return to the Master device and so on.

The starting alternation and operation of the pumps of the pressure set, guarantees a uniform wear therefore longer life of the booster set.

In case of a temporary blackout, the pressure set will automatically rearm once the electricity returns.

PUMPS ALTERNATION DURING CONTINUOUS OPERATION

If for any reason one or more pumps are working continuously, in order to guarantee uniform wear of the pumps, every sixty minutes of continuous operation of a pump, a forced exchange will be made with another pump on stand-by.

The changeover respects the alternating sequence of all the devices.

VARIABLE MASTER

In case of malfunctioning of the Master device, the system will transfer the operation to the Slave device immediately following the Master.

If the original Master device has been reset, it will automatically be reintegrated into the system as a Slave device.

AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the devices will automatically make 10 double attempts to rearm over the 24 hours following the failure, each lasting approximately 5 seconds to allow the pump and the system to reload if possible.

The user can try to rearm the devices at any time by pressing the Restart button.

ANTI-JAMMING FUNCTION

If for any reason the pumps remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds without affecting the normal operation of the pressure set.

MODELS AND TECHNICAL FEATURES

	SINGLE-PHASE / SINGLE-PHASE		
MODELS	SP 8,5	SP 11	SP 13
Mains voltage	1 ~ 230 Vac	1 ~ 230 Vac	1 ~ 230 Vac
Acceptable voltage fluctuations	+/- 15%	+/- 15%	+/- 15%
Frequency (automatic recognition)	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Pump motor voltage	1 ~ 230 V	1 ~ 230 V	1 ~ 230 V
Maximum pump motor current	8,5 A	11 A	13 A
Maximum pump motor power	1,1 kW - 1,5 HP	1,5 kW - 2 HP	2,2 kW - 3 HP
Motor soft start	Yes	Yes	Yes
Electrical connection cable to mains H07 RN-F	3Gx1,5 mm² L 1,5 m schuko plug		
Electrical connection cable to motor H07 RN-F	3Gx1,5 mm² L 1,5 m		
Length motor cable up to 80 m.	Yes	Yes	Yes
Maximum operating	16 bar	16 bar	16 bar
Adjustable system pressure	2 ÷ 12 bar	2 ÷ 12 bar	2 ÷ 12 bar
Adjustable cut-in pressure	1 ÷ 11 bar	1 ÷ 11 bar	1 ÷ 11 bar
Minimum flow	~ 1 l/min	~ 1 l/min	~ 1 l/min
Maximum operating temperature	60 °C	60 °C	60 °C
Protection degree	IP 65	IP 65	IP 65
Digital manometer	Yes	Yes	Yes
Digital ammeter	Yes	Yes	Yes
Dry running protection	Yes	Yes	Yes
Timed automatic rearming	Yes	Yes	Yes
Anti-jamming function	Yes	Yes	Yes
Protection fuse	Yes	Yes	Yes
Short-circuit protection between phases	Yes	Yes	Yes
Short-circuit protection between phases and earth	Yes	Yes	Yes
Over-current protection	Yes	Yes	Yes
Voltage surge protection	Yes	Yes	Yes
Over-temperature protection	Yes	Yes	Yes
Pressure sensor fault detection	Yes	Yes	Yes
Float switch and level probe connections	Yes	Yes	Yes
Remote ON/OFF connection predisposition	Yes	Yes	Yes
Remote alarm connection predisposition	Yes	Yes	Yes
Accumulation	Integrated	Integrated	Integrated
Check valve	Integrated	Integrated	Integrated
Water discharge	Yes	Yes	Yes
Male connections	1" - 1"	1" 1/4 - 1" 1/4	1" 1/4 - 1" 1/4
Interchangeable male connections	1" 1/4 - 1" 1/4	1" 1/2 - 1" 1/2	1" 1/2 - 1" 1/2
Stainless steel screws	Yes	Yes	Yes
Overall dimensions (L x H x W) and weight	260 x 312 x 285 mm ~ 5 Kg		

➤ Communication between devices: for each model is available the "COM" version that is standardly equipped with interface and communication cable.

