



# 2022 CATALOGUE



## **PRESSCONTROL EVO 04**

Water passage variable frequency drive for the control and protection of the pump and booster sets

## **PRESSCONTROL WALL 10**

Air cooled variable frequency drive for the control and protection of the pump and booster sets

## **PRESSCONTROL 16**

Device for the control and protection of the pump

## **MASCONTROL 18**

Device for the control and protection of pumps up to 3 HP with 1 1/4" male connections

## **MASCONTROL 3PHASE 20**

Device for the control and protection of the three-phase pump up to 3 HP with 1 1/4" male connections

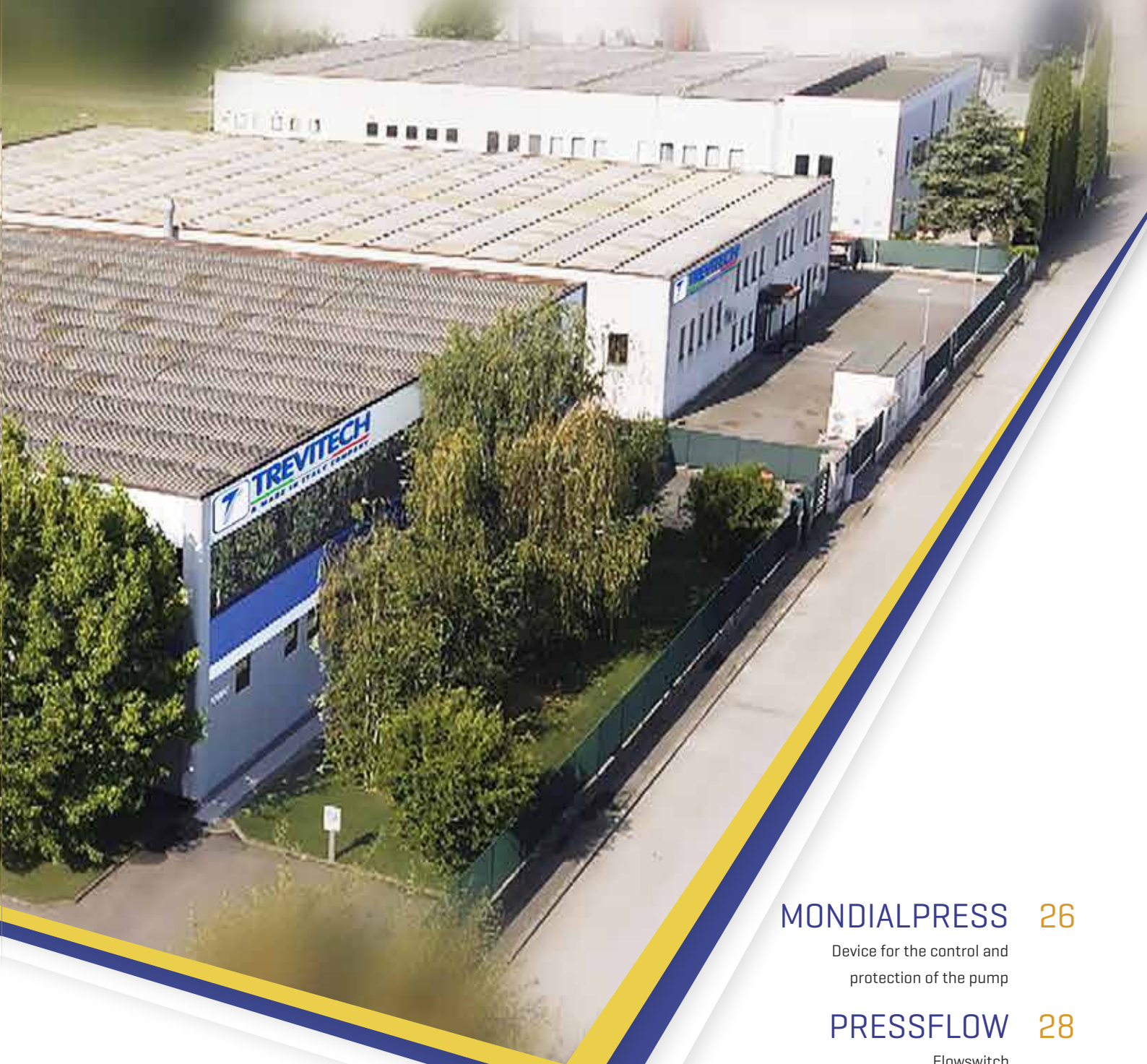
## **CONTROLPRES 22**

Device for the control and protection of the pump with adjustable working pressure

## **CONTROLPRES 3PHASE 24**

Device for the control and protection of the three-phase pump with adjustable working pressure





## MONDIALPRESS 26

Device for the control and protection of the pump

## PRESSFLOW 28

Flowswitch

## BOOSTER KIT SERIES 30

Device used to realize Duty/Stand-By assist  
Booster Sets with variable/fixed speed

## CONTROL PANEL 34

Control panel for the control and protection of the pump and the pressure set

## GSM CONTROL 36

GSM device for receiving and transmitting data


## PUMPSTOP 38

Pump saver

\* Trevitech reserves the right to make changes without the obligation of notice.



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## PRESSCONTROL EVO

### 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 from 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 and anti-jamming function.

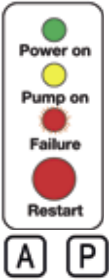
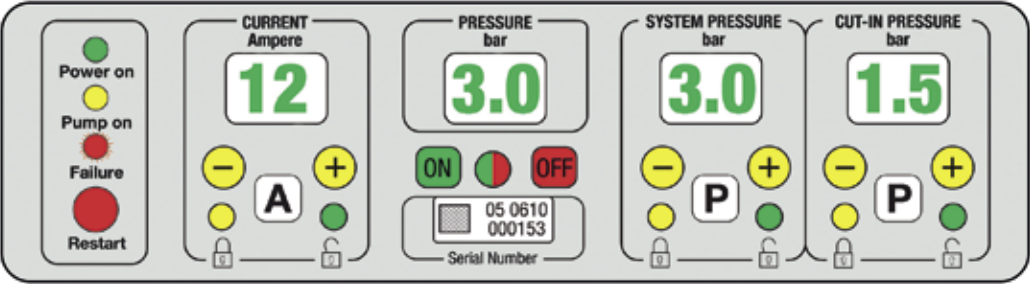
Ensures energy saving.

Can be installed on surface and submersible pumps.

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

Maintenance free.

# CONTROL AND SETTING



<b>POWER ON</b>	Green led on	Device energized
<b>PUMP ON</b>	Yellow led on	Pump running
<b>FAILURE</b>	Red led blinking	Failure
<b>RESTART</b>	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 **+** e **-** 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.



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



**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.



**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.

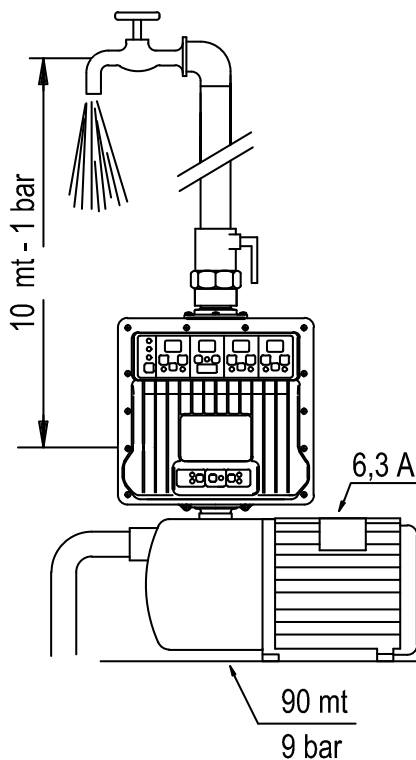
When the set-up is completed the factory-set current and pressure values will appear on the display [CURRENT 1,5 A - SYSTEM PRESSURE 3,0 bar - CUT-IN PRESSURE 1,5 bar], the Current display starts blinking and the real pressure value of the system appears on the Pressure display.

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 device 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 device at any time by pressing the Restart button.

## ANTI-JAMMING FUNCTION

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

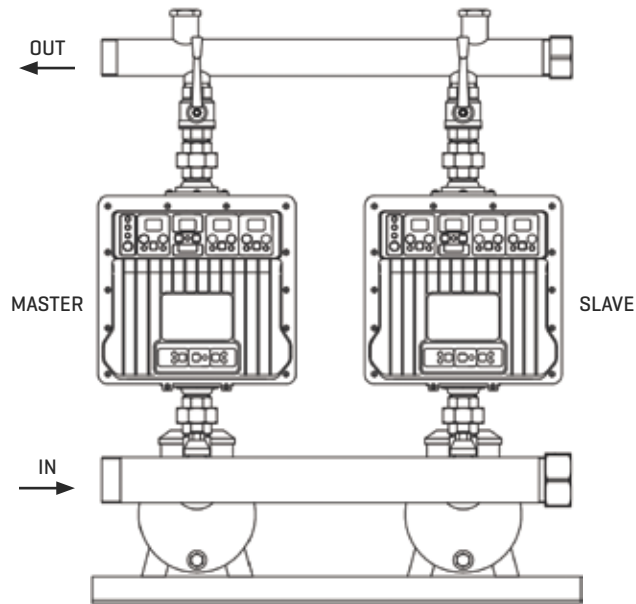
## COMMUNICATION BETWEEN DEVICES

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

MODELS	SINGLE-PHASE / SINGLE-PHASE		
	MM 8,5	MM 11	MM 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 mm <sup>2</sup> L 1,5 m schuko plug		
Electrical connection cable to motor H07 RN-F	3Gx1,5 mm <sup>2</sup> 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.



SINGLE-PHASE / THREE-PHASE	
MT 8,5	MT 11
1 ~ 230 Vac	1 ~ 230 Vac
+/- 15%	+/- 15%
50 / 60 Hz	50 / 60 Hz
3 ~ 230 V Δ	3 ~ 230 V Δ
8,5 A	11 A
1,9 kW - 2,5 HP	2,2 kW - 3 HP
Yes	Yes
3Gx1,5 mm² L 1,5 m schuko plug	
4Gx1,5 mm² L 1,5 m	
Yes	Yes
16 bar	16 bar
2 ÷ 12 bar	2 ÷ 12 bar
1 ÷ 11 bar	1 ÷ 11 bar
~ 1 l/min	~ 1 l/min
60 °C	60 °C
IP 65	IP 65
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Integrated	Integrated
Integrated	Integrated
Yes	Yes
1" - 1"	1" 1/4 - 1" 1/4
1" 1/4 - 1" 1/4	1" 1/2 - 1" 1/2
Yes	Yes
260 x 312 x 285 mm ~ 5 Kg	

THREE-PHASE / THREE-PHASE			
TT 6	TT 9	TT 12	TT 16
3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac
+/- 15%	+/- 15%	+/- 15%	+/- 15%
50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
3 ~ 400 V Y	3 ~ 400 V Y	3 ~ 400 V Y	3 ~ 400 V Y
6 A	9 A	12 A	16 A
2,2 kW - 3 HP	3 kW - 4 HP	5,5 kW - 7,5 HP	7,5 kW - 10 HP
Yes	Yes	Yes	Yes
4Gx1,5 mm² L 1,5 m		4Gx2,5 mm² L 1,5 m	
4Gx1,5 mm² L 1,5 m		4Gx2,5 mm² L 1,5 m	
Yes	Yes	Yes	Yes
16 bar	16 bar	16 bar	16 bar
2 ÷ 12 bar	2 ÷ 12 bar	2 ÷ 12 bar	2 ÷ 12 bar
1 ÷ 11 bar	1 ÷ 11 bar	1 ÷ 11 bar	1 ÷ 11 bar
~ 1 l/min	~ 1 l/min	~ 1 l/min	~ 1 l/min
60 °C	60 °C	60 °C	60 °C
IP 65	IP 65	IP 65	IP 65
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Integrated	Integrated	Integrated	Integrated
Integrated	Integrated	Integrated	Integrated
Yes	Yes	Yes	Yes
1” 1/4 - 1” 1/4	1” 1/4 - 1” 1/4	1” 1/4 - 1” 1/4	1” 1/4 - 1” 1/4
1” 1/2 - 1” 1/2	1” 1/2 - 1” 1/2	1” 1/2 - 1” 1/2	1” 1/2 - 1” 1/2
Yes	Yes	Yes	Yes
260 x 312 x 320 mm ~ 7 Kg			



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## PRESSCONTROL WALL / WALL PRO

**AIR COOLED VARIABLE FREQUENCY DRIVE FOR CONTROL AND PROTECTION OF THE PUMP**

PRESSCONTROL WALL M CAN CONTROL EITHER SINGLE-PHASE PUMPS UP TO 3 HP OR THREE-PHASE PUMPS 230V UP TO 4 HP.

PRESSCONTROL WALL T AND WALL PRO CAN CONTROL THREE-PHASE 400V PUMPS UP TO 20 HP.

It can be wall-mounted or installed directly on the pipe system [Wall M and T series].

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

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

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

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

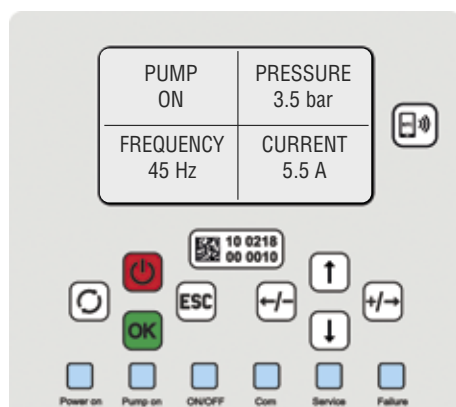
Ensures energy saving.

Can be installed on surface and submersible pumps.

Standardly supplied with a stainless steel 16 bar pressure sensor.

## CONTROL AND SETTINGS PANEL

Setting up and starting the Presscontrol Wall is extremely easy and intuitive thanks to the large and bright display that shows the information and the keyboard that allows to quickly enter and change the operating parameters of the pump.



In the figure, clockwise, an example of visualization of the information divided into 4 quadrants:

- 1 - Pump status
- 2 - Real system pressure
- 3 - Working frequency of the inverter
- 4 - Absorbed current in Ampere



**ON/OFF BUTTON**

Starts and stops the pump

**ESC BUTTON**

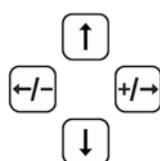
To exit the programming screen

**OK BUTTON**

To access programming and confirm data entry

**RESTART BUTTON**

For manual resetting in the event of a fault



**UP ARROW**

Menu scroll upwards

**RIGHT ARROW**

Menu scrolling to the right and to increase parameter values

**DOWN ARROW**

Menu scrolling downwards

**LEFT ARROW**

Menu scrolling to the left and to decrease parameter values



**Power on** Presence of voltage



**Pump on** Pump is running



**ON/OFF** Inverter on or off



**Com** Communication between devices active



**Service** Request for maintenance



**Failure** Operating fault



➤ Serial number and data matrix of the device



➤ Data transmission with NFC technology. Download our APP and place the mobile phone near the icon to transfer the information from the inverter to your smartphone.

To save energy, the display turns off one minute after the last operation. To turn the display back on, simply press any button on the keypad.

The LEDs indicating the main phases of the device's operation remain lit even when the display turns off to allow the user to always have the status of the system under control.

## OPERATING MODE

The Presscontrol Wall has three selectable operating modes:

### > RESIDENTIAL

Standard operation.

Ideal for domestic installations and the assembly of pressure booster sets.

### > IRRIGATION

Allows to set two different operating and restart pressures of the pump.

Ideal for residential, public irrigation and agriculture.

### > SWIMMING POOL/INDUSTRY

Allows to set up to two different fixed pump operating speeds.

Ideal for residential, public swimming pools and industry.

## INSTALLATION AND STARTUP

Install the device on a wall near the pump (fig.1, 3) or directly on the pipe system (fig.2).

Connect the supplied pressure sensor, make the electrical connections and energize.

Arrange the use of an expansion tank sized according to the hydraulic characteristics of the system.

To start the pump, follow the instructions that will appear in sequence on the display of the device.

## ANTI-JAMMING FUNCTION

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.

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

## AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the device 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 device at any time by pressing the Restart button.

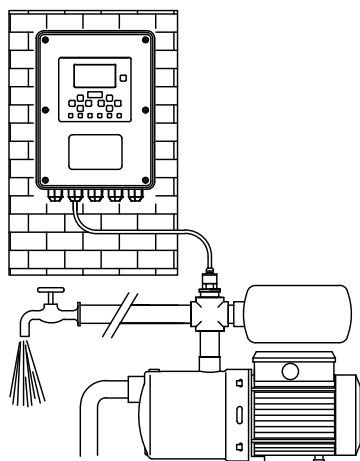


FIG.1

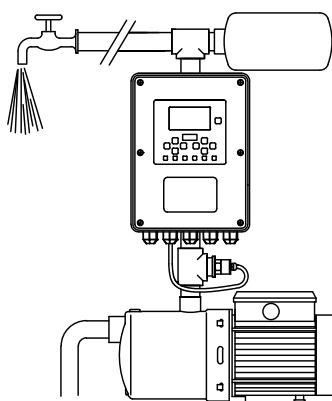


FIG.2

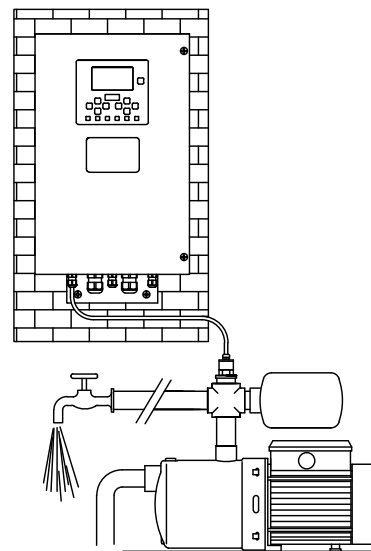
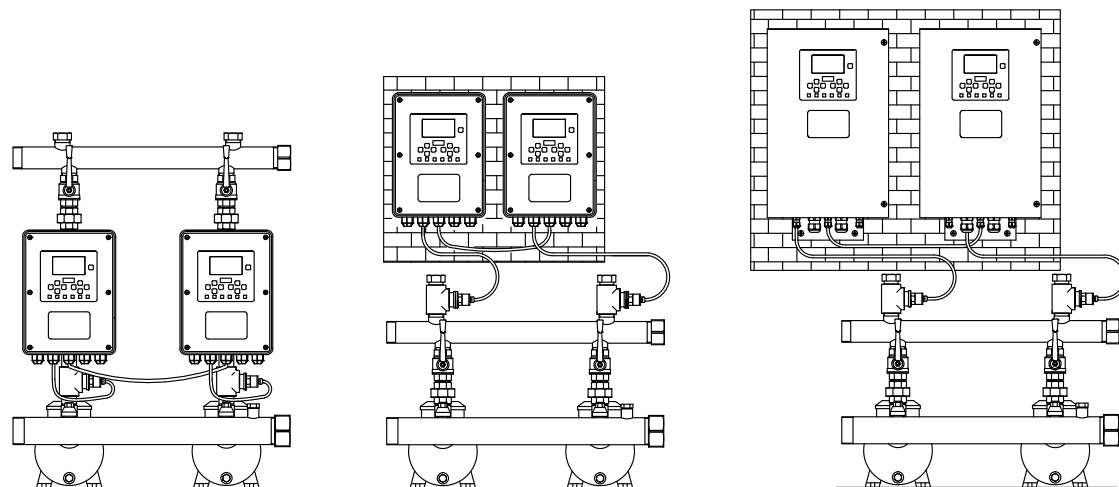


FIG.3



## BOOSTER SETS

Presscontrol Wall allows the assembly of booster-sets with up to 4 pumps.



## INSTALLATION AND STARTUP

Connect the devices together using the serial port.

Program the Presscontrol Wall selected as Master following the instructions on the display.

Enable communication on the Master Presscontrol Wall that automatically will transfer the data to the other connected Presscontrol Wall units that will act as Slave devices.

You can now start the booster set.

To change the system pressure value and restart pressure value, only act on the Master device even if the pump is running.

The system pressure value and restart pressure value set on the Master device will be automatically transferred to the Slave devices.

## OPERATION

The Master device controls the Slave devices and determines the group operation.

Initially, the pump on which the Master device is installed starts first, but if the water demand is such that this pump is not able to maintain the set system pressure value, the second pump on which the Slave device is installed automatically starts.

Every time the pumps stop, the second and/or third, fourth pump start 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 ensures uniform wear of the pumps, which results in a 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 of the pump for about 5 seconds without affecting the normal operation of the booster set.

## MODELS AND TECHNICAL FEATURES

## PRESSCONTROL WALL

MODELS	SINGLE-PHASE /		THREE-PHASE /
	M 8,5	M 11	T 6
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
Single-phase pump motor	1 ~ 230 V	1 ~ 230 V	1 ~ 230 V
Three-phase pump motor	3 ~ 230 V Δ	3 ~ 230 V Δ	3 ~ 230 V Δ
Maximum pump motor current	8,5 A	11 A	13 A
Maximum single-phase pump motor power	1,1 kW - 1,5 HP	1,5 kW - 2 HP	2,2 kW - 3 HP
Maximum three-phase pump motor power	1,9 kW - 2,5 HP	2,2 kW - 3 HP	3 kW - 4 HP
Motor soft start	Yes	Yes	Yes
Motor cable length up to 80 m	Yes	Yes	Yes
Maximum operating pressure	25 bar	25 bar	25 bar
Adjustable system pressure	2 ÷ 25 bar	2 ÷ 25 bar	2 ÷ 25 bar
Adjustable restart pressure	1 ÷ 24 bar	1 ÷ 24 bar	1 ÷ 24 bar
Adjustable minimum flow	Yes	Yes	Yes
Maximum operating temperature	50 °C	50 °C	50 °C
Protection degree*	IP65	IP65	IP65
Digital manometer	Yes	Yes	Yes
Digital ammeter	Yes	Yes	Yes
Dry running protection	Yes	Yes	Yes
Automatic restart	Yes	Yes	Yes
Anti-jamming function	Yes	Yes	Yes
Protection fuse	Yes	Yes	Yes
Irrigation mode [double pressure]	Yes	Yes	Yes
Pool/Industry mode [fixed speed]	Yes	Yes	Yes
Short-circuit protection between phases	Yes	Yes	Yes
Short-circuit protection between phases and earth	Yes	Yes	Yes
Amperometric protection	Yes	Yes	Yes
Voltage surge protection	Yes	Yes	Yes
Over-temperature protection	Yes	Yes	Yes
Pressure sensor fault detection	Yes	Yes	Yes
Flow switch connection	Yes	Yes	Yes
BMS protocol connection	Yes	Yes	Yes
Integrated NFC data transfer system	Yes	Yes	Yes
Connection for float switch and level probe	Yes	Yes	Yes
Remote ON/OFF connection	Yes	Yes	Yes
Remote "Pump on" connection	Yes	Yes	Yes
Remote alarm connection	Yes	Yes	Yes
Communication between devices	Yes	Yes	Yes
Overall dimensions [L x H x W] and weight	200 x 275 x 125 - 8 kg		200 x 275 x 125 - 8 kg

\* Device protection degree IP65, cooling fan IP20.

➤ Note: The minimum and maximum values of the system pressure and the restart pressure vary according to the pressure sensor used.

➤ Three-phase 230V versions with power up to 27 Ampere are available on request.

## THREE-PHASE

[illegible]

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# PRESSCONTROL

## DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Starts and stops the pump depending on opening and closing of the taps.

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

Can be installed on surface and submersible pumps.

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





Maintenance free.

## MODELS AND TECHNICAL FEATURES

	PRESSCONTROL	PRESSCONTROL R	PRESSCONTROL UP	PRESSCONTROL UP R
Single-phase mains voltage	230 Vac	230 Vac	115/230 Vac	115/230 Vac
Acceptable voltage fluctuation	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Current max.	10 A	10 A	10 A	10 A
Power max at 115V	—	—	0,75 kW [1 HP]	0,75 kW [1 HP]
Power max at 230V	1,5 kW [2 HP]	1,5 kW [2 HP]	1,5 kW [2 HP]	1,5 kW [2 HP]
Protection degree	IP 65	IP 65	IP 65	IP 65
Operating pressure max.	12 bar	12 bar	12 bar	12 bar
Operating temperature max.	65 °C	65 °C	65 °C	65 °C
Minimum flow	~1 l/min	~1 l/min	~1 l/min	~1 l/min
Male connections	Gc 1"	Gc 1"	Gc 1"	Gc 1"

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP ON	Yellow led on	Pump running
	FAILURE	Red led on	Water shortage
	RESTART	Button	Reset after failure



## INSTALLATION AND STARTUP

The device can be installed directly on the pump or between the pump and the first tap.

Make all the electrical connections, check that the pump is correctly primed, open a tap and energize.

From now on, the device will turn the pump on and off depending on the opening and closing of the tap.

In case of water shortage, the device will stop the pump and protect it from dry running [red "Failure" led on].

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



## SELECTION OF THE DEVICE WITH THE CORRECT RESTART VALUE

Refer to the following table to choose the device with the correct restart value suitable to the characteristics of the system.

Standard restart value is 1,5 bar. On request, restart values different from the standard are available as indicated in the table.

RESTART PRESSURE	1,2 bar	1,5 bar	2,2 bar	3 bar	4 bar
FLOORS NUMBER	4	5	7	10	13
BUILDING HEIGHT (H)	12 mt	15 mt	22 mt	30 mt	40 mt
MAX PUMP PRESSURE	min 2,5 bar	min 3 bar	min 3,5 bar	min 4,5 bar	min 5,5 bar

## PRESSCONTROL UP

It is different from the Presscontrol because it can be powered with both 115 Vac and 230 Vac and is equipped with automatic rearms and anti-jamming function.

### AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the device 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.

### ANTI-JAMMING FUNCTION

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

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.

## PRESSCONTROL R

It is different technically and aesthetically from the Presscontrol only in the modified hydraulic part to allow the restart value adjustment.

It is therefore possible to combine the restart regulation function also to the Presscontrol UP.

### SETTING THE RESTART VALUE

Set the desired restart value by turning the screw on the back of the unit. Turn clockwise to increase restart pressure value and counter clockwise to decrease restart pressure value [see fig. 1].

For a correct regulation of the restart value, follow the table below.

RESTART PRESSURE	1,5 bar	2 bar	2,5 bar	3 bar
FLOORS NUMBER	5	6	8	10
BUILDING HEIGHT (H)	15 mt	20 mt	25 mt	30 mt
MAX PUMP PRESSURE	min 3 bar	min 3,5 bar	min 4 bar	min 4,5 bar



FIG.1

## OPTIONALS

· GasOil version – suitable for use with petroleum and some chemicals.



Made in Italy

# MASCONTROL

## DEVICE FOR THE CONTROL AND PROTECTION OF THE PUMP

Can be energized with either 115 Vac or 230 Vac.

Starts and stops the pump depending on opening and closing of the taps.

It has 1"1/4 male connections to guarantee a higher flow rate.

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

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

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

Can be installed on surface and submersible pumps up to 3 HP.





Maintenance free.

## MODELS AND TECHNICAL FEATURES

	MASCONTROL	MASCONTROL R	MASCONTROL 24V
Single-phase mains voltage	115/230 Vac	115/230 Vac	24 Vcc
Acceptable voltage fluctuation	+/- 10%	+/- 10%	+/- 10%
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Current max.	16 A	16 A	20 A
Power max at 115V	1,1 kW [1,5 HP]	1,1 kW [1,5 HP]	—
Power max at 230V	2,2 kW [3 HP]	2,2 kW [3 HP]	—
Power max at 24V	—	—	0,37 kW [0,5 HP]
Protection degree	IP 65	IP 65	IP 65
Operating pressure max.	12 bar	12 bar	12 bar
Operating temperature max.	60 °C	60 °C	60 °C
Minimum flow	~1 l/min	~1 l/min	~1 l/min
Male connections	Gc 1"1/4	Gc 1"1/4	Gc 1"1/4

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP ON	Yellow led on	Pump running
	FAILURE	Red led blinking	Water shortage
	RESTART	Button	Reset after failure

## INSTALLATION AND STARTUP

The device can be installed directly on the pump or between the pump and the first tap.

Make all the electrical connections, check that the pump is correctly primed, open a tap and energize.

From now on, the device will turn the pump on and off depending on the opening and closing of the tap.

In case of water shortage, the device will stop the pump and protect it from dry running [red "Failure" led blinking].

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



## SELECTION OF THE DEVICE WITH THE CORRECT RESTART VALUE

Refer to the following table to choose the device with the correct restart value suitable to the characteristics of the system. Standard restart value is 1,5 bar. On request, restart values different from the standard are available as indicated in the table.

RESTART PRESSURE	1,2 bar	1,5 bar	2,2 bar	3 bar	4 bar
FLOORS NUMBER	4	5	7	10	13
BUILDING HEIGHT (H)	12 mt	15 mt	22 mt	30 mt	40 mt
MAX PUMP PRESSURE	min 2,5 bar	min 3 bar	min 3,5 bar	min 4,5 bar	min 5,5 bar

## AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the device 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 device at any time by pressing the Restart button.

## ANTI-JAMMING FUNCTION

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.

## MASCONTROL R

It is different technically and aesthetically from the Mascontrol only in the hydraulic part modified to allow the adjustment of the restart value and for the presence, as standard, of the pressure gauge.

## SETTING THE RESTART VALUE

Set the desired restart value by turning the screw on the back of the unit. Turn clockwise to increase restart pressure value and counter clockwise to decrease restart pressure value [see fig. 1].

For a correct regulation of the restart value, follow the table below.

RESTART PRESSURE	1,5 bar	2 bar	2,5 bar	3 bar
FLOORS NUMBER	5	6	8	10
BUILDING HEIGHT (H)	15 mt	20 mt	25 mt	30 mt
MAX PUMP PRESSURE	min 3 bar	min 3,5 bar	min 4 bar	min 4,5 bar



FIG.1

## MASCONTROL 24V

24 Volt direct current version ideal for use on campers, industrial vehicles, boats, photovoltaic systems, etc.

On request it is also available in 12 Vdc version.

## OPTIONALS

• Gasoil version - suitable for use with petroleum and some chemicals.



Made in Italy  
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# MASCONTROL 3PHASE

## DEVICE FOR CONTROL AND PROTECTION OF THE THREE-PHASE PUMP

Three-phase power supply 400 Vac.

Starts and stops the pump depending on opening and closing of the taps.

It has 1"1/4 male connections to guarantee a higher flow rate.

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

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

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

Can be installed on surface and submersible pumps up to 3 HP.





Maintenance free.

## MODELS AND TECHNICAL FEATURES

	MASCONTROL 3PHASE	MASCONTROL 3PHASE UP
Three-phase mains voltage	400 Vac	230 Vac / 400 Vac
Three-phase pump motor voltage	400 V Y	230 V Δ / 400 V Y
Acceptable voltage fluctuation	+/- 10%	+/- 10%
Frequency	50/60 Hz	50/60 Hz
Current max.	6 A	6 A
Power max. at 230V	—	1,1 kW [1,5 HP]
Power max. at 400V	2,2 kW [3 HP]	2,2 kW [3 HP]
Protection degree	IP 65	IP 65
Operating pressure max.	12 bar	12 bar
Operating temperature max.	50 °C	50 °C
Minimum flow	~1 l/min	~1 l/min
Male connections	Gc 1"1/4	Gc 1"1/4
Standard equipped cables	H07RN-F 4G x 1,5 mm²	H07RN-F 4G x 1,5 mm²

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP ON	Yellow led on	Pump running
	FAILURE	Red led blinking	Water shortage
	RESTART	Button	Reset after failure



## INSTALLATION AND STARTUP

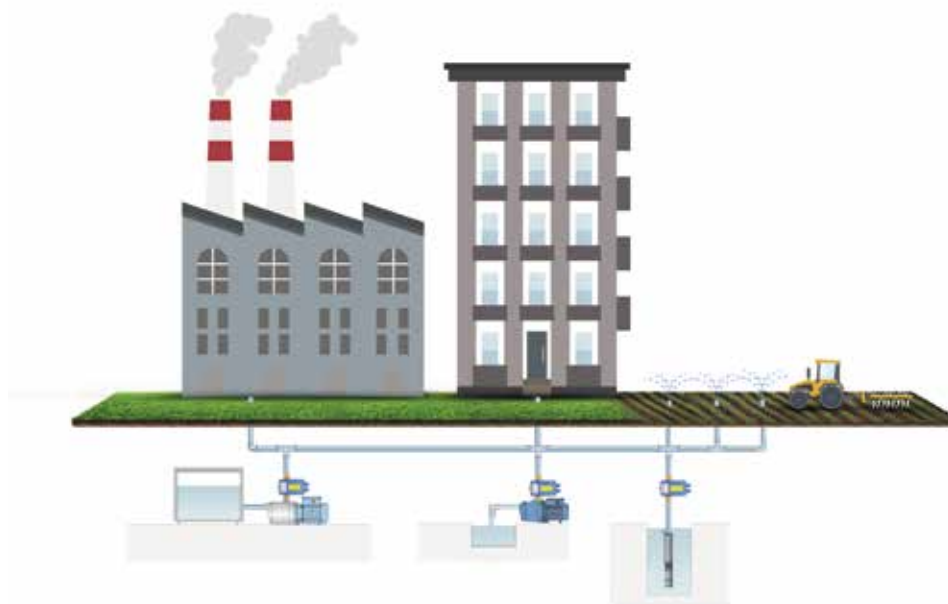
The device can be installed directly on the pump or between the pump and the first tap.

Make all the electrical connections, check that the pump is correctly primed, open a tap and energize.

From now on, the device will turn the pump on and off depending on the opening and closing of the tap.

In case of water shortage, the device will stop the pump and protect it from dry running [red "Failure" led blinking].

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



## SELECTION OF THE DEVICE WITH THE CORRECT RESTART VALUE

Refer to the following table to choose the device with the correct restart value suitable to the characteristics of the system.

Standard restart value is 1,5 bar. On request, restart values different from the standard are available as indicated in the table.

RESTART PRESSURE	1,2 bar	1,5 bar	2,2 bar	3 bar	4 bar
FLOORS NUMBER	4	5	7	10	13
BUILDING HEIGHT (H)	12 mt	15 mt	22 mt	30 mt	40 mt
MAX PUMP PRESSURE	min 2,5 bar	min 3 bar	min 3,5 bar	min 4,5 bar	min 5,5 bar

## AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the device 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 device at any time by pressing the Restart button.

## ANTI-JAMMING FUNCTION

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.

## MASCONTROL 3PHASE UP

It can be powered with either 230 or 400 V three-phase voltage.

It differs from MASCONTROL 3PHASE for the presence of electrical protections for the motor.

### Protection against inversion of the direction of rotation of the motor.

In case of accidental inversion of a phase in power supply, the device detects the anomaly and automatically maintains the correct direction of rotation of the motor as set and verified during installation.

### Protection against a missing phase in power supply.

In the event of a missing phase in power supply, the device detects the fault and prevents the pump from starting.

## OPTIONALS

- Version with pressure gauge available on request.
- GasOil version - suitable for use with petroleum and some chemicals.



Made in Italy

# CONTROLPRES

## DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Can be energized with either 115 Vac or 230 Vac.

Starts and stops the pump depending on opening and closing of the taps.

It allows to reduce the maximum pressure of the pump and to set the working pressure.

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

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

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

Can be installed on surface and submersible pumps up to 3 HP.

Maintenance free.





## TECHNICAL FEATURES

### CONTROLPRES

Single-phase mains voltage	115/230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50/60 Hz
Current max.	16 A
Power max. at 115V	1,1 kW [1,5 HP]
Power max. at 230V	2,2 kW [3 HP]
Protection degree	IP 65
Operating pressure max.	12 bar
Operating temperature max.	60 °C
Minimum flow	~1 l/min
Pressure regulating range	3 - 6,5 bar
Male connections	Gc 1"1/4

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP ON	Yellow led on	Pump running
	FAILURE	Red led blinking	Water shortage
	RESTART	Button	Reset after failure

## INSTALLATION AND STARTUP

The device can be installed directly on the pump or between the pump and the first tap.

Make all the electrical connections, check that the pump is correctly primed, open a tap and energize.

From now on, the device will turn the pump on and off depending on the opening and closing of the tap.

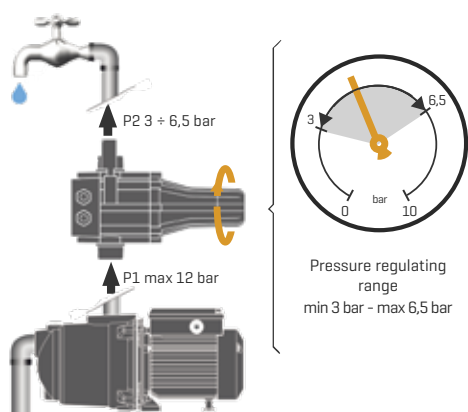
In case of water shortage, the device will stop the pump and protect it from dry running (red "Failure" led blinking).

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



## REGULATION OF THE WORKING PRESSURE

To set the pressure to the desired value, turn the knob on the rear of the device clockwise to increase the pressure and counterclockwise to decrease it [adjustment range from 3 to 6,5 bar]. The restart value is directly proportional to the regulated pressure [see table].



SET PRESSURE	3 bar	3,5 bar	4 bar	4,5 bar	5 bar	5,5 bar	6 bar	6,5 bar
RESTART PRESSURE	1,2 bar	1,5 bar	2 bar	2,5 bar	3 bar	3,5 bar	4 bar	4,5 bar
FLOORS NUMBER	4	5	6	8	10	11	13	15
BUILDING HEIGHT (H)	12 mt	15 mt	20 mt	25 mt	30 mt	35 mt	40 mt	4,5 mt
MAX PUMP PRESSURE	min 4,5 bar	min 5 bar	min 5,5 bar	min 6 bar	min 6,5 bar	min 7 bar	min 7,5 bar	min 8 bar

## AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the device 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 device at any time by pressing the Restart button.

## ANTI-JAMMING FUNCTION

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.

## OPTIONALS

• GasOil version - suitable for use with petroleum and some chemicals.



Made in Italy  
PATENTED

# CONTROLPRES 3PHASE

## DEVICE FOR CONTROL AND PROTECTION OF THE THREE-PHASE PUMP

Three-phase power supply 400 Vac.

Starts and stops the pump depending on opening and closing of the taps.

It allows to reduce the maximum pressure of the pump and to set the working pressure.

It has 1"1/4 male connections to guarantee a higher flow rate.

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

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

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

Can be installed on surface and submersible pumps up to 3 HP.




Maintenance free.

## MODELS AND TECHNICAL FEATURES

	CONTROLPRES 3PHASE	CONTROLPRES 3PHASE UP
Three-phase mains voltage	400 Vac	230 Vac / 400 Vac
Three-phase pump motor voltage	400 V Y	230 V Δ / 400 V Y
Acceptable voltage fluctuation	+/- 10%	+/- 10%
Frequency	50/60 Hz	50/60 Hz
Current max.	6 A	6 A
Power max. at 230V	—	1,1 kW [1,5 HP]
Power max. at 400V	2,2 kW [3 HP]	2,2 kW [3 HP]
Protection degree	IP 65	IP 65
Operating pressure max.	12 bar	12 bar
Operating temperature max.	50 °C	50 °C
Minimum flow	~1 l/min	~1 l/min
Pressure regulating range	3 - 6,5 bar	3 - 6,5 bar
Male connections	Gc 1"1/4	Gc 1"1/4
Standard equipped cables	H07RN-F 4G x 1,5 mm²	H07RN-F 4G x 1,5 mm²

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP ON	Yellow led on	Pump running
	FAILURE	Red led blinking	Water shortage
	RESTART	Button	Reset after failure



## INSTALLATION AND STARTUP

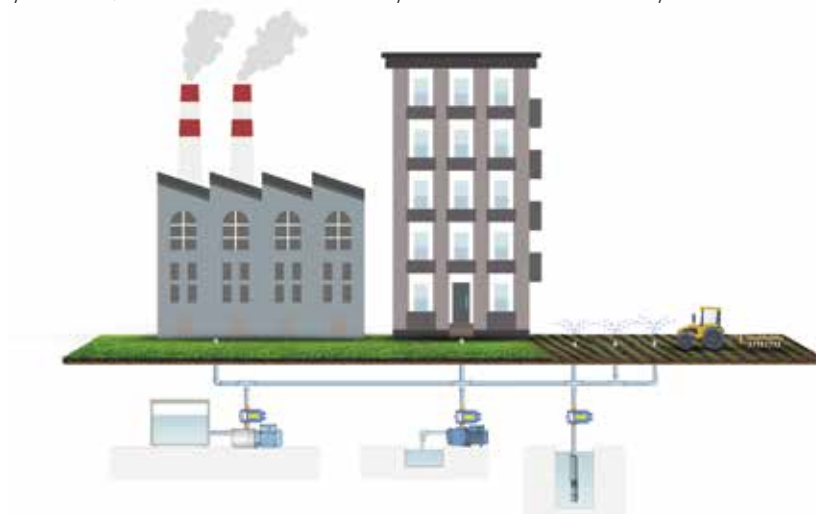
The device can be installed directly on the pump or between the pump and the first tap.

Make all the electrical connections, check that the pump is correctly primed, open a tap and energize.

From now on, the device will turn the pump on and off depending on the opening and closing of the tap.

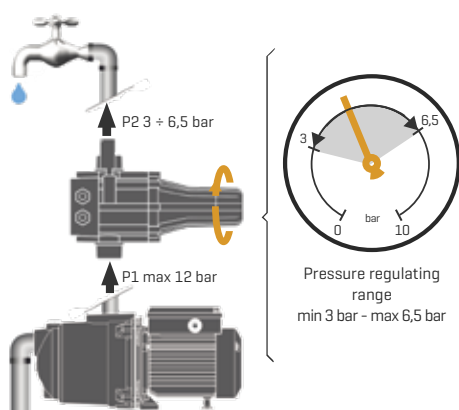
In case of water shortage, the device will stop the pump and protect it from dry running (red "Failure" led blinking).

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



## REGULATION OF THE WORKING PRESSURE

To set the pressure to the desired value, turn the knob on the rear of the device clockwise to increase the pressure and counterclockwise to decrease it (adjustment range from 3 to 6,5 bar). The restart value is directly proportional to the regulated pressure (see table).



SET PRESSURE	3 bar	3,5 bar	4 bar	4,5 bar	5 bar	5,5 bar	6 bar	6,5 bar
RESTART PRESSURE	1,2 bar	1,5 bar	2 bar	2,5 bar	3 bar	3,5 bar	4 bar	4,5 bar
FLOORS NUMBER	4	5	6	8	10	11	13	15
BUILDING HEIGHT (H)	12 mt	15 mt	20 mt	25 mt	30 mt	35 mt	40 mt	4,5 mt
MAX PUMP PRESSURE	min 4,5 bar	min 5 bar	min 5,5 bar	min 6 bar	min 6,5 bar	min 7 bar	min 7,5 bar	min 8 bar

## AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the device 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 device at any time by pressing the Restart button.

## ANTI-JAMMING FUNCTION

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.

## CONTROLPRES 3PHASE UP

It can be powered with either 230 or 400 V three-phase voltage.

It differs from CONTROLPRES 3PHASE for the presence of electrical protections for the motor.

### PROTECTION AGAINST INVERSION OF THE DIRECTION OF ROTATION OF THE MOTOR

In case of accidental inversion of a phase in power supply, the device detects the anomaly and automatically maintains the correct direction of rotation of the motor as set and verified during installation.

### PROTECTION AGAINST A MISSING PHASE IN POWER SUPPLY

In the event of a missing phase in power supply, the device detects the fault and prevents the pump from starting.

## OPTIONALS

• GasOil version - suitable for use with petroleum and some chemicals.



Made in Italy

# MONDIALPRESS

## DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Starts and stops the pump depending on opening and closing of the taps.

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

Can be installed on surface and submersible pumps.

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




Maintenance free.

## MODELS AND TECHNICAL FEATURES

	MONDIALPRESS 2LED	MONDIALPRESS UP	MONDIALPRESS UP T
Single-phase mains voltage	230 Vac	115/230 Vac	115/230 Vac
Acceptable voltage fluctuation	+/- 10%	+/- 10%	+/- 10%
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Current max.	8 A	8 A	8 A
Power max. at 115V	—	0,55 kW [0,75 HP]	0,55 kW [0,75 HP]
Power max. at 230V	1,1 kW [1,5 HP]	1,1 kW [1,5 HP]	1,1 kW [1,5 HP]
Protection degree	IP 65	IP 65	IP 65
Operating pressure max.	10 bar	10 bar	10 bar
Operating temperature max.	60 °C	60 °C	60 °C
Minimum flow	~1 l/min	~1 l/min	~1 l/min
Male connections	Gc 1"	Gc 1"	Gc 1"

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES

	POWER ON	Green led on	Device energized
	PUMP ON	Yellow led on	Pump running
	RESTART	Button	Reset after failure

## INSTALLATION AND STARTUP

The device can be installed directly on the pump or between the pump and the first tap. Make all the electrical connections, check that the pump is correctly primed, open a tap and energize. From now on, the device will turn the pump on and off depending on the opening and closing of the tap. In case of water shortage, the device will stop the pump and protect it from dry running. In case of a temporary blackout, the device will automatically rearm once the electricity returns.



## SELECTION OF THE DEVICE WITH THE CORRECT RESTART VALUE

Refer to the following table to choose the device with the correct restart value suitable to the characteristics of the system. Standard restart value is 1,5 bar. On request, restart values different from the standard are available as indicated in the table.





RESTART PRESSURE	0,8 bar	1,2 bar	1,5 bar	2,2 bar	3 bar
FLOORS NUMBER	2	4	5	7	10
BUILDING HEIGHT (H)	8 mt	12 mt	15 mt	22 mt	30 mt
MAX PUMP PRESSURE	min 2 bar	min 2,5 bar	min 3 bar	min 3,5 bar	min 4,5 bar

## MONDIALPRESS UP

Mondialpress UP is equipped with the red Failure LED to signal water shortage.

### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP ON	Yellow led on	Pump running
	FAILURE	Red led blinking	Water shortage
	RESTART	Button	Reset after failure



## MONDIALPRESS UP T

Mondialpress UP T is equipped with automatic restarts and anti-jamming function. Can be powered independently at 115 V or 230 V.

### AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the device 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 device at any time by pressing the Restart button.

### ANTI-JAMMING FUNCTION

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.



Made in Italy

# PRESSFLOW

## ELECTRONIC FLOWSWITCH

Can be energized with either 115 Vac or 230 Vac.

Starts and stops the pump depending on opening and closing of the taps.

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




Maintenance free.

## MODELS AND TECHNICAL FEATURES

	PRESSFLOW	PRESSFLOW <i>UP</i>
Single-phase mains voltage	115/230 Vac	115/230 Vac
Acceptable voltage fluctuation	+/- 10%	+/- 10%
Frequency	50/60 Hz	50/60 Hz
Current max.	8 A	8 A
Power max. at 115V	0,55 kW [0,75 HP]	0,55 kW [0,75 HP]
Power max. at 230V	1,1 kW [1,5 HP]	1,1 kW [1,5 HP]
Protection degree	IP 65	IP 65
Operating pressure max.	16 bar	16 bar
Operating temperature max.	65 °C	65 °C
Minimum flow	~0,5 l/min	~0,5 l/min
Male connections	Gc 1"	Gc 1"

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP ON	Yellow led on	Pump running
	RESTART	Button	Reset after failure

## INSTALLATION AND STARTUP

The device can be installed directly on the pump or between the pump and the first tap.  
Make all the electrical connections, check that the pump is correctly primed, open a tap and energize.  
In order to operate it requires a minimum flow that passes through it when a tap of the system is opened.  
For this reason, the device and the system tap must be installed lower than the tank [Fig. 1 - Fig. 2].  
Starts and stops the pump depending on the opening and closing of the taps.  
In case of water shortage, the device stops the pump protecting it from dry running.  
In case of a temporary blackout, the device will automatically rearm once the electricity returns.



FIG.1

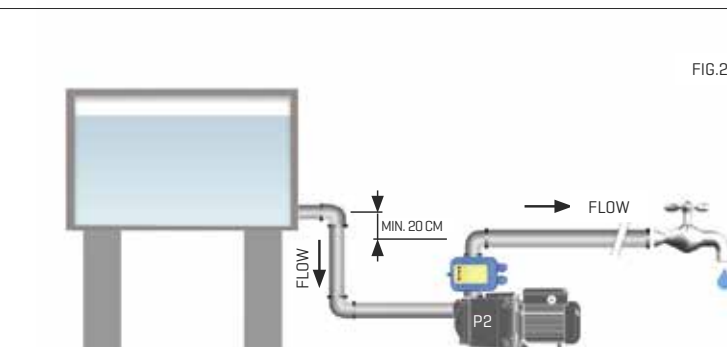


FIG.2

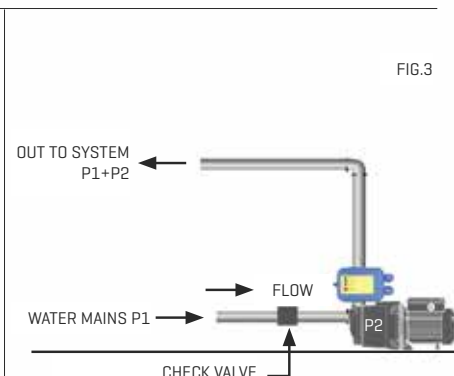


FIG.3

## PRESSFLOW UP

The UP version is different from the standard LOGICFLOW due to the presence of automatic rearms and the anti-jamming function.  
The device automatically starts the pump for about 7 seconds every 30 minutes for 6 hours. The first start takes place 30 minutes after the last pump stop. The device also automatically starts the pump for about 7 seconds every 24 hours [ anti-jamming function].  
The pump is started 24 hours after the last pump stop.  
This model is ideal for the direct provisioning from the water mains in the event of frequent interruptions in the water supply service [fig.3].



Made in Italy

## BOOSTER KIT SERIES

It allows to realize two pumps booster sets with alternating [Duty/Stand-by] and/or simultaneous [Duty/Assist] operation of the pumps.

It guarantees the pump alternation at each start.

It starts the second pump in case of higher water request.

It is standardly equipped for connection with an electric float switch for dry-running protection.

### BOOSTER KIT





Available in two versions, one for operation with ON/OFF devices and one with VFDs.

#### TECHNICAL FEATURES

	DUTY/STAND-BY APPLICATION			DUTY/STAND-BY APPLICATION	
	ON/OFF Version	VFD Version		ON/OFF Version	VFD Version
Single-phase mains voltage	230 Vac	230 Vac		230 Vac	230 Vac
Acceptable voltage fluctuation	+/- 10%	+/- 10%		+/- 10%	+/- 10%
Frequency	50/60 Hz	50/60 Hz		50/60 Hz	50/60 Hz
Current max	12 A	12 A		12 A	12 A
Power max	1,5 kW [2 HP]	1,5 kW [2 HP]		0,75 kW [1 HP]	0,75 kW [1 HP]
Minimum pwm frequency [with inverter]	—	10 kHz		—	10 kHz
Protection degree	IP 65	IP 65		IP 65	IP 65
Operating temperature max	50 °C	50 °C		50 °C	50 °C

#### CONTROL PANEL

##### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP 1 ON	Yellow led on	Pump 1 on
	PUMP 2 ON	Yellow led on	Pump 2 on
	FLOAT	Red led blinking	Intervention of safety float switch



## OPERATION

### > DUTY/STAND-BY MODE

Install the device as shown in figure 1 A, 1 B, 1 C page 32 and energize.

When in use, the main control device powers the Booster Kit that starts the first pump.

At each start, the Booster Kit makes the pump alternation to ensure the even out wear of the pumps, which results in a longer life of the booster set.

In case the main control device is not equipped with dry running protection, it is possible to install an electric float switch.

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

### > DUTY/ASSIST MODE

Install the device as shown in figure 2A and 2B page 33 and energize.

When in use, the control device powers the Booster Kit that starts the first pump.

At each following start, the device makes the pumps alternation, but if the water request is such that the pump cannot maintain the pressure set, the second pump starts automatically.

The pumps alternation ensures the even out wear of the pumps which results in a longer life of the booster set.

In case the main control device is not equipped with dry running protection, it is possible to install an electric float switch.

In case of operation with VFDs both pumps are managed by inverters.

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

## BOOSTER KIT EVO

It allows to realise two-pump-booster set with a single VFD from the Wall series.






### TECHNICAL FEATURES

	BOOSTER KIT EVO
Single-phase mains voltage	230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50/60 Hz
Current max	10 A
Power max for each pump	1,1 kW [1,5 HP]
Protection degree	IP 55
Operating temperature max.	50 °C



### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	PUMP 1 ON	Yellow led on	Pump 1 on
	PUMP 2 ON	Yellow led on	Pump 2 on
	FAILURE	Red led blinking	Intervention of safety float switch
	FLOAT	Green led on	Communication between devices active

### OPERATION

Install the device as shown in figure 1C page 32 and energize.

The inverter powers the Booster kit and determines the operation of the booster set.

When in use, the control device powers the Booster Kit that starts the first pump.

At each following start, the device makes the pumps alternation, but if the water request is such that the pump cannot maintain the pressure set, the second pump starts automatically.

The pumps alternation ensures the even out wear of the pumps which results in a longer life of the booster set.

Both pumps are managed by VFD.

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

## AUTOMATIC RESTARTS

The Booster Kit devices managed by an VFD of the Wall series are equipped with automatic restarts and anti-jamming function. In case of stopping due to a water shortage, the device 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 device at any time by pressing the Restart button.

## ANTI-JAMMING FUNCTION

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.

## EXAMPLES OF INSTALLATION IN DUTY/STAND-BY MODE

**BOOSTER KIT  
WITH PRESSURE SWITCH**

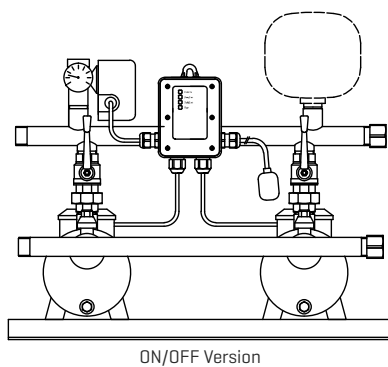


FIG.1A

**BOOSTER KIT  
WITH PRESSCONTROL**

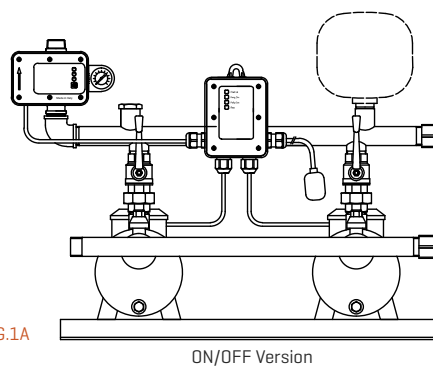


FIG.1B

**BOOSTER KIT  
WITH VFD**

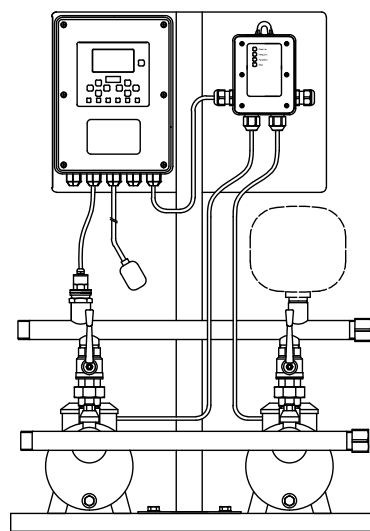
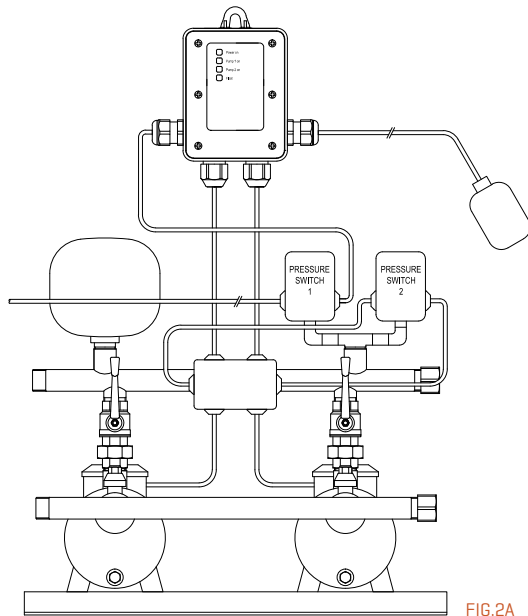


FIG.1C

VFD Version

## EXAMPLES OF INSTALLATION IN DUTY/ASSIST MODE

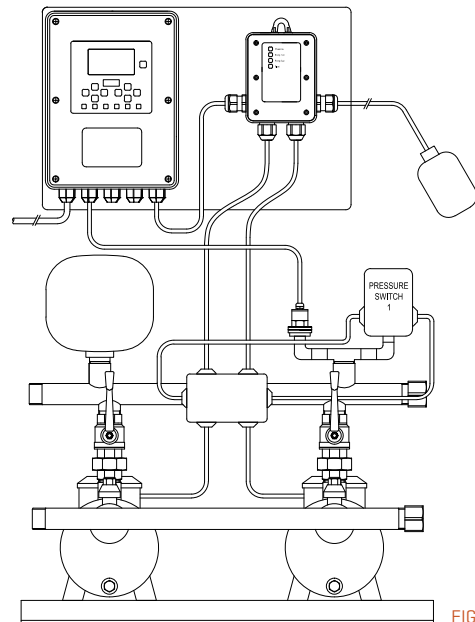
### BOOSTER KIT WITH PRESSURE SWITCH



ON/OFF Version

FIG.2A

### BOOSTER KIT WITH VFD



VFD Version

FIG.2B

## TRANSFER SET

The Booster Kit devices, suitably wired, can be used to assembly transfer sets.

Install the device as shown in figure 3 and energize.

When the water level in the tank drops, the control float switch activates the device that stops the pump.

Once water reaches the maximum level in the tank, the control float switch disables the device that stops the pump.

At each start, the device makes the pump changeover to ensure the even out wear of the pumps, which results in a longer life of the booster set.

In case the suction tank empties, the security float switch will protect the pump from dry running.

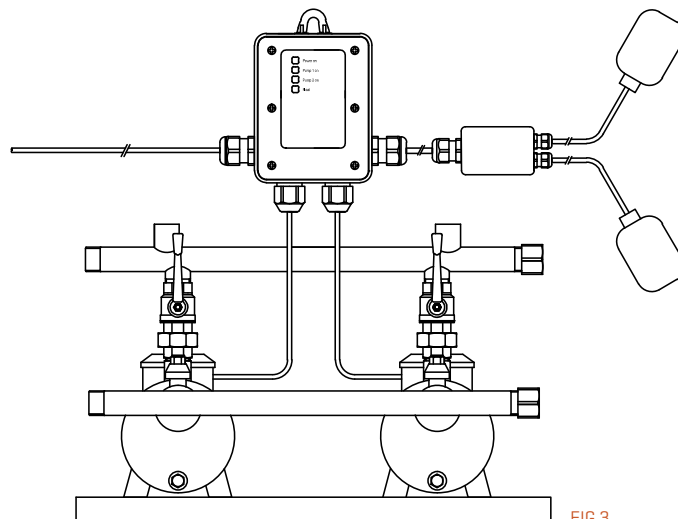


FIG.3



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## CONTROL PANEL

Control panel for the management of 1 or more pumps.

It can be used with either a digital pressure switch or a mechanical pressure switch.

It is equipped with 4 different working modes.

It stops the pump in case of lack of water and protects it from dry running.

Stops the pump in case of overcurrent and protects the motor.

It is equipped with automatic rearms and anti-jamming function.

Only one model for single-phase pumps from 0 to 3 HP.

Standard connection of floats or probes.

It is equipped with safety fuses.

Data transmission with NFC technology as standard.

### TECHNICAL FEATURES

	CONTROL PANEL
Single-phase mains voltage	230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50/60 Hz
Current max.	2 x 16 A
Power max.	2 x 2,2 kW [2 x 3 HP]
Protection degree	IP 65
Operating pressure max.	16 bar
Operating temperature max.	60 °C

## CONTROL AND SETTINGS PANEL

Setting up and starting Control Panel is an extremely easy and intuitive operation thanks to the large and bright display that shows the information and the keyboard that allows to enter and modify the pump operating parameters rapidly.



In the figure, clockwise, an example of visualization of the information divided into 4 quadrants:

- 1 - Pump 1 status
- 2 - Pump 2 status
- 3 - Pump 1 absorption in Ampere
- 4 - Pump 2 absorption in Ampere

	<b>Power on</b>	Voltage presence
	<b>Pump on</b>	Pump / Pumps running
	<b>ON/OFF</b>	Panel On or Off
	<b>Com</b>	Communication between devices is active
	<b>Service</b>	Request for maintenance
	<b>Failure</b>	Operation error

	<b>PULSANTE ON/OFF</b>	Starts and stops the pump
	<b>PULSANTE ESC</b>	Return to main menu
	<b>PULSANTE OK</b>	To access programming and confirm data entry
	<b>PULSANTE RESTART</b>	Reset after fault

## INSTALLATION AND STARTUP

Connect the pumps and the pressure sensor [or pressure switches] to the Logic Panel.  
Energize the unit, set the operating pressures and select the desired working mode from the available ones.

## OPERATION

Logic Panel starts and stops the pump[s] according to the opening and closing of the outlets.

The unit can work with different operating modes:

- Single pump: when used with a single pump.
- Two pumps set Duty/Stand-by mode: The pumps alternate at each start but never work simultaneously.
- Two pumps set Duty/Assist mode: The pumps alternate at each start and work simultaneously when necessary.
- Two pumps set Pump 1 or 2 only mode: Only the pump selected by the user works.

## 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 stand-by pump.

The changeover respects the alternating sequence of all the devices.

## AUTOMATIC RESTARTS

In case of stopping due to a water shortage, the device 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 device at any time by pressing the Restart button.

## ANTI-JAMMING FUNCTION

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

## USE WITH PRESSURE SWITCHES

The Logic Panel can also be operated with mechanical pressure switches in two different modes:

- The Logic Panel is equipped with a pressure sensor.  
In this case the pressure switches are activated by the Control Panel only in case of emergency, i.e. if the pressure sensor should break.
- The Logic Panel is not equipped with a pressure sensor.

The starting of the pumps is therefore managed by the pressure switches as on any electromechanical control panel.

In this case, in order to protect the pumps from dry running, it will be necessary to use a safety float switch or a safety kit. level probes.



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## GSM CONTROL

Universal GSM device for data reception and transmission.

It is equipped with analog and digital inputs and outputs.

Programming by smartphone.

Programmable from Smartphone by means of a dedicated App with NFC technology.

Send/Receive data via SMS.

### TECHNICAL FEATURES

	GSM CONTROL
Single-phase mains voltage	230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50/60 Hz
Inputs	N.1 digital RS486 N.2 analogical
Outputs	N.2 analogical
Maximum operating temperature	60 °C

### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	POWER ON	Green led on	Device energized
	COM	Green led on	Communication between devices is active
	NETWORK	Yellow led on	GSM network available
	DATA TRANSFER	Green led on	Data transfer



## INSTALLATION AND STARTUP

Download the TREVITECH App for programming and reading the operating parameters.

Power up the device, start the TREVITECH App and place the Smartphone near the icon  to read data.

Now you can program all the operating parameters via your Smartphone.

Once all the fields of the App have been filled in, place the Smartphone near the device again to program GSM Control.

Now all you have to do is connect the device to the pump or the pressure-set and energize it.

## OPERATION

Compatible with any type of data SIM on the market, it allows to send customized messages up to three phone numbers preset by the user by Smartphone.

Logic GSM can be connected to the inverters and the Control Panel in the Treviengineering catalogue.

Moreover, when connected to any commercial device [inverter, control panel, etc.] with analog/digital inputs/outputs, the dedicated App allows you to customize the information to be sent and/or received from the device.

## EXAMPLE OF INSTALLATION

The following figure shows a typical example of installation.

If the pressure set to which GSM Control must be connected is located in a room without a network signal, the device can be moved until it indicates the presence of a network by turning on the Network LED.





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# PUMPSTOP

## ELECTRONIC PUMP SAVER

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





Stops the pump and protects the motor in case of overcurrent.

## MODELS AND TECHNICAL FEATURES

	PUMPSTOP	PUMPSTOP <i>UP</i>
Single-phase mains voltage	230 Vac	230 Vac
Acceptable voltage fluctuation	+/- 10%	+/- 10%
Frequency	50 Hz	50 Hz
Pump motor current	Min 3 A - Max 8 A	Min 6 A - Max 10 A
Operating temperature	Min 5 °C - Max 45 °C	Min 5 °C - Max 45 °C
Ambient temperature	Max 55 °C	Max 55 °C

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

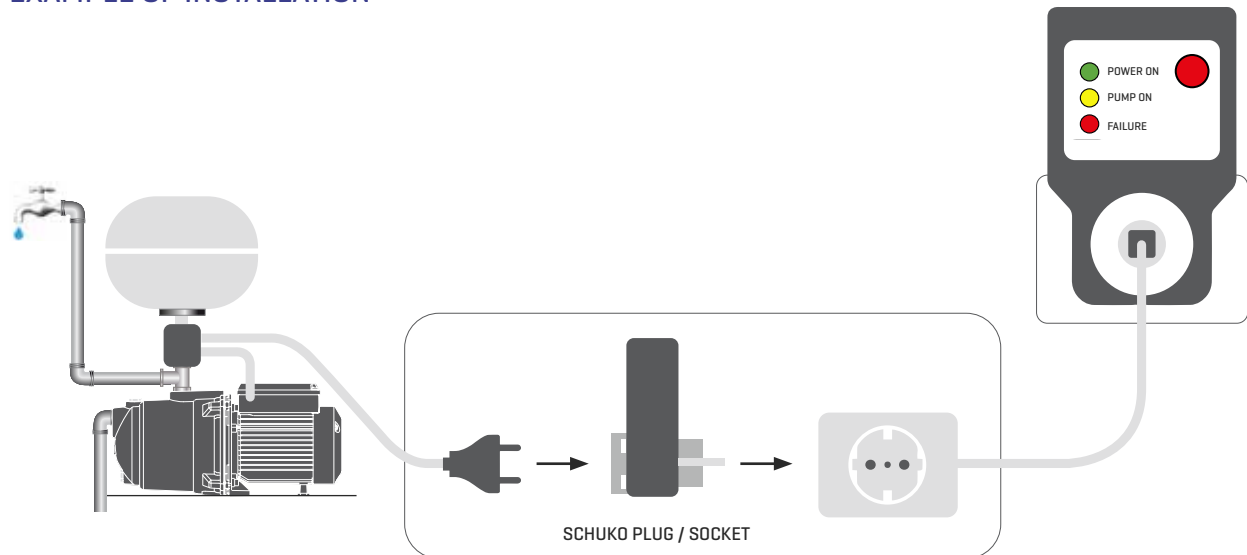
	POWER ON	Green led	On	Device energized
	PUMP ON	Yellow led	On	Pump running
	FAILURE	Red led	Blinking On	Water shortage Overcurrent
	RESTART	Button		Motor data acquisition Reset after failure

## INSTALLATION

To operate, it must be connected to the power supply line of the pump.

For this reason, the power supply of the pump must be inserted in the device, which is then connected to the power socket.

## EXAMPLE OF INSTALLATION



## OPERATION

In case of water shortage, the device stops the pump protecting it from dry running. This failure is indicated with the blinking red Failure led.

In case of the current absorption exceeding 8 Ampere [or 10 Ampere for Pumpstop Up version], the device stops the pump motor and protects it against over-current. This failure is indicated with the red Failure led on.

To restore normal operation to the device and the system simply press the red Restart button.

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

## PUMPSTOP **UP**

This is the enhanced version of the PUMPSTOP.

PUMPSTOP UP can be used on single-phase electric pumps with absorptions between 6 and 10 Ampere.

## SPECIAL VERSIONS

### > PUMPSTOP IP65 / PUMPSTOP IP65 PLUS

· Pumpstop and Pumpstop UP versions with IP65 degree of protection [see photo].

### > PUMPSTOP "AUSTRALIA"

· Version with Australian plug/socket.

### > PUMPSTOP INTEGRATED

· The "on-board" version of Pumpstop inserted directly into the terminal box cover of the pump. Only made on request.



QUALITY MARKS  
AND CERTIFICATIONS



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by



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