



**TREVI** <sup>®</sup>  
*engineering*



**2022 CATALOGUE**



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

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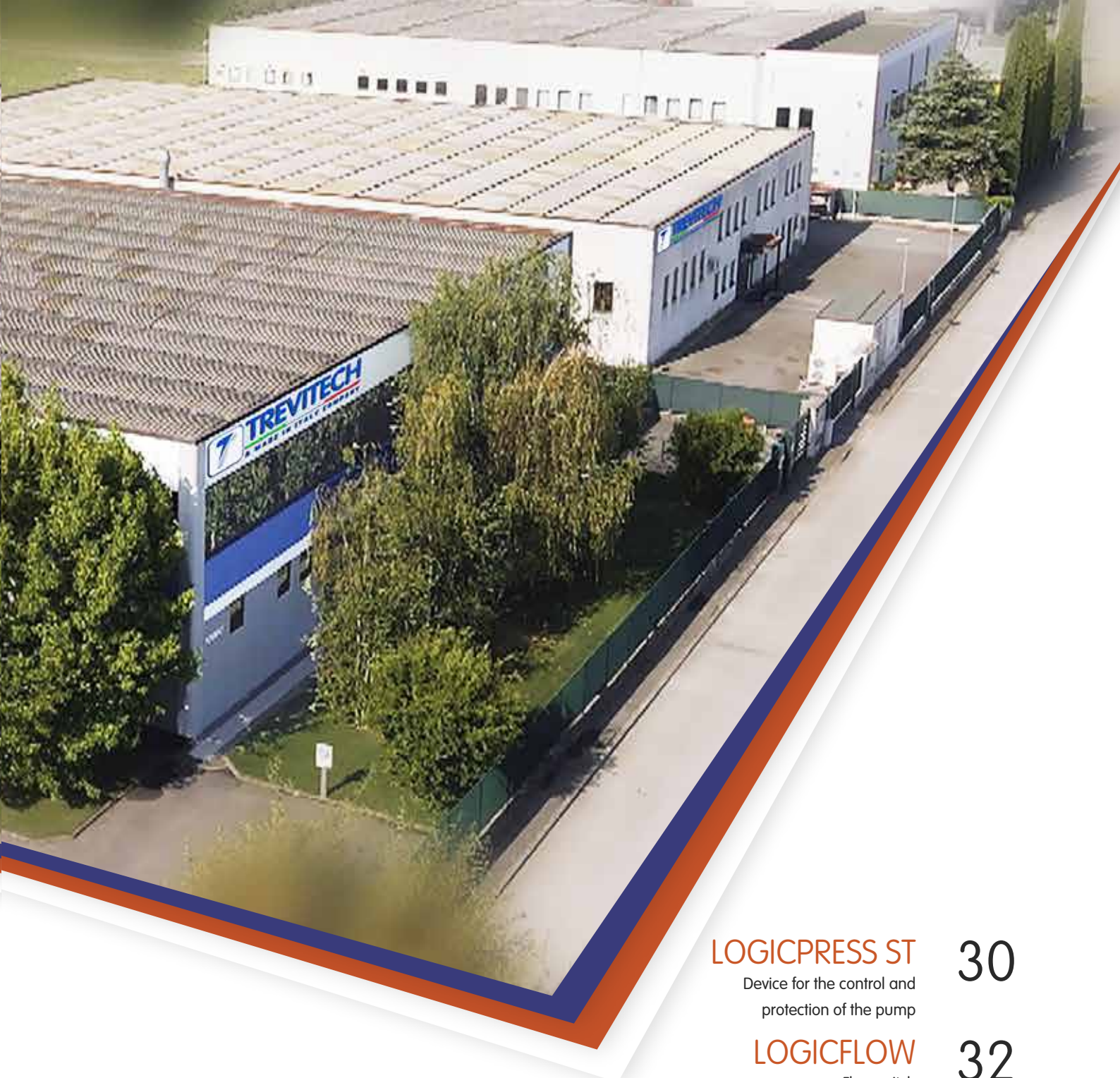
Device for the control and protection of the pump with adjustable working pressure

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## 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.

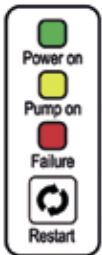
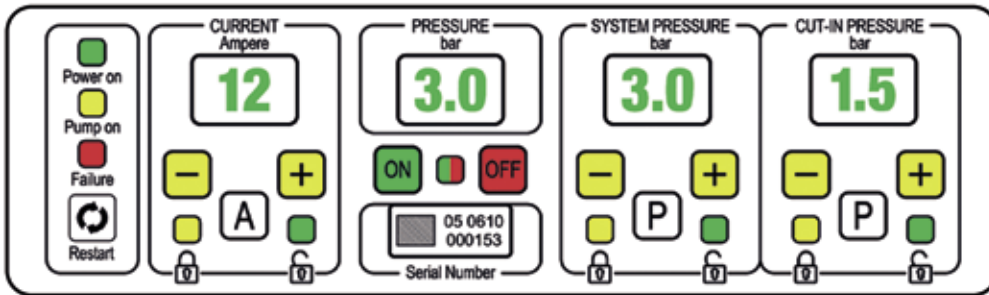
Ensures energy saving.

Can be installed on surface and submersible pumps.

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

Maintenance free.

## CONTROL AND SETTING



<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
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### 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.



<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.

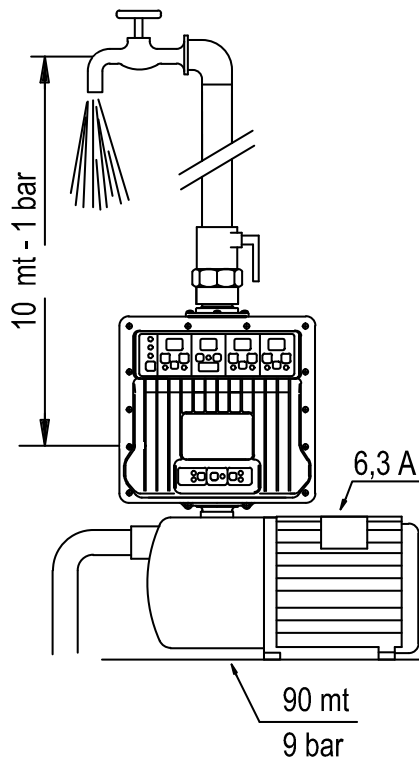
When the set-up is completed the factory-set current and pressure values will appear on the display (CURRENT 1,5 A - SYSTEM PRESSURE 3,0 bar - CUT-IN PRESSURE 1,5 bar), the Current display starts blinking and the real pressure value of the system appears on the Pressure display.

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 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.

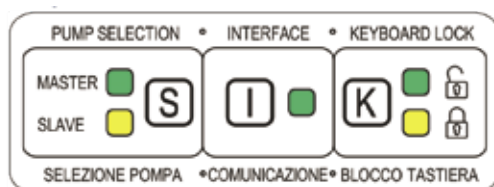
The user can try to rearm the devices at any time by pressing the Restart button.

## ANTI-JAMMING FUNCTION

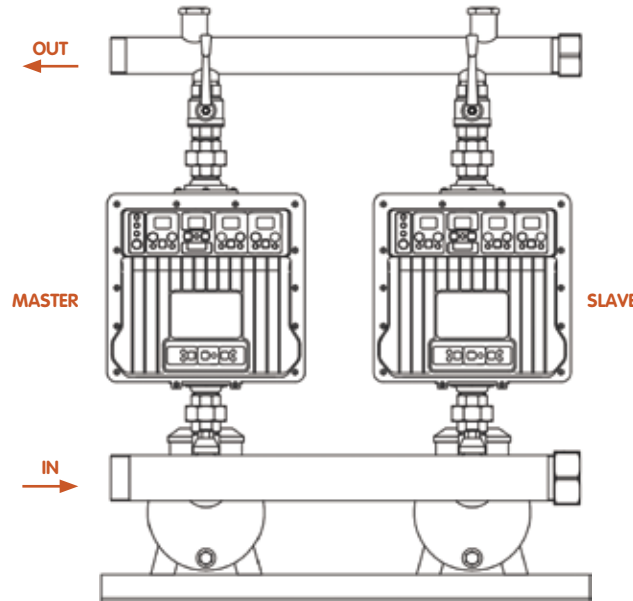
If for any reason the pumps remains idle for 24 consecutive hours, the device will starts of the pump or for about 5 seconds without affecting the normal operation of the unit.

## 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

MODELS	SINGLE-PHASE / SINGLE-PHASE		
	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 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.







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## LOGICWALL / LOGICWALL PRO

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

Logicwall M can control either single-phase pumps up to 3 HP or three-phase pumps 230V up to 4 HP.

Logicwall T and Logicwall PRO can control three-phase 400V pumps up to 20 HP.

It can be wall-mounted or installed directly on the pipe system.

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.

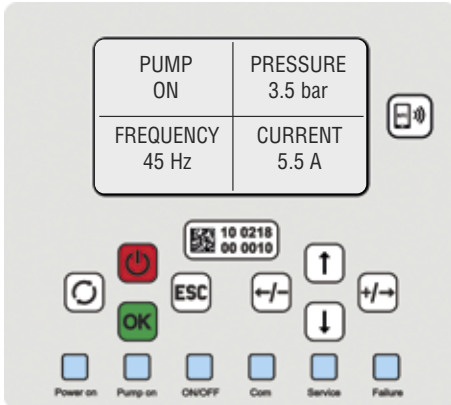
Ensures energy saving.

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 LOGICWALL 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.

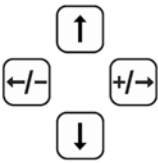


In the figure, clockwise, an example of visualization of the information divided into 4 quadrants:

- 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 Logicwall has three selectable operating modes:

### > RESIDENTIAL

Standard operation.

Ideal for domestic installations and the realization 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.

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

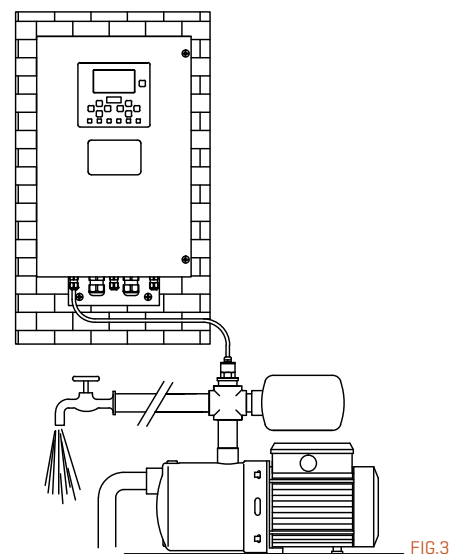
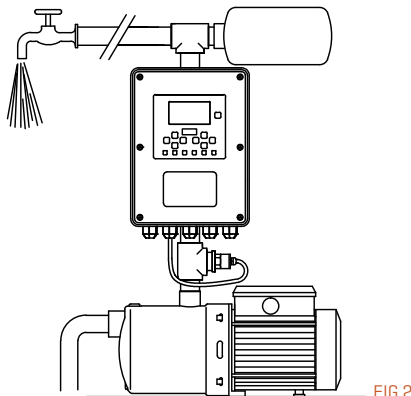
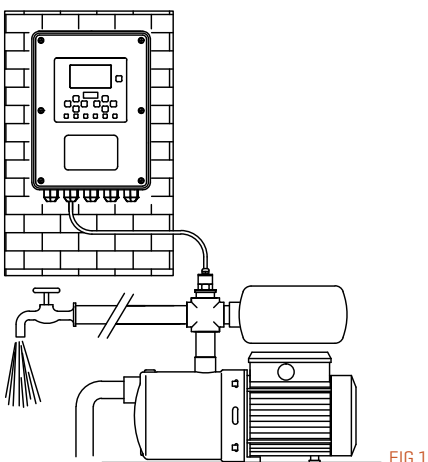
## AUTOMATIC RESTARTS

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.

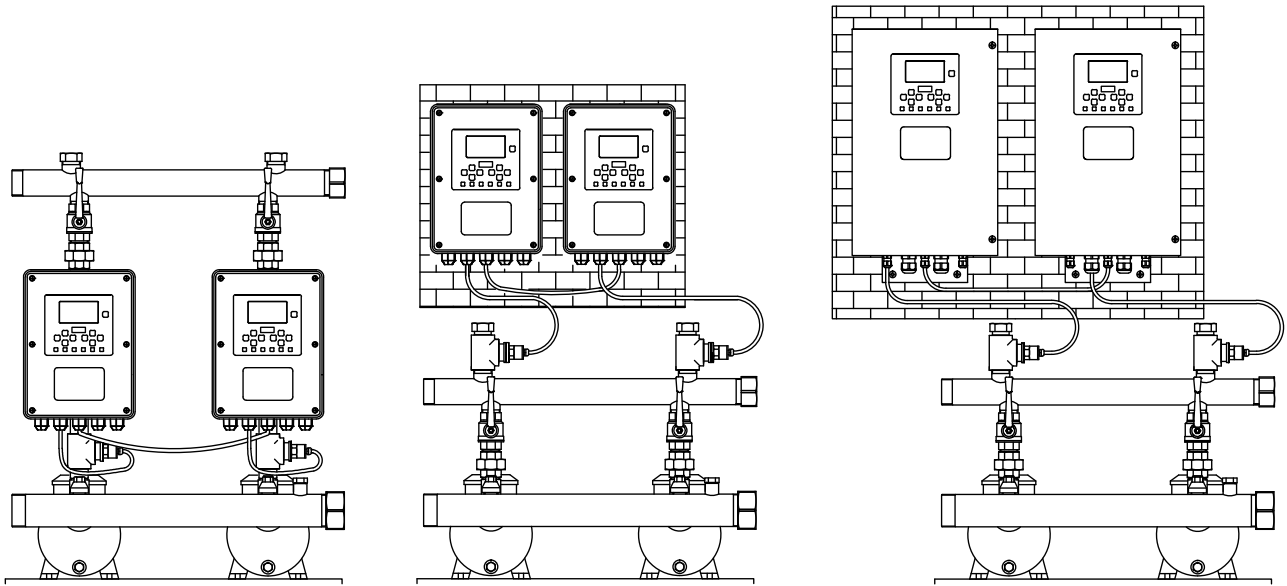
## ANTI-JAMMING FUNCTION

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



## BOOSTER SETS

Logicwall allows the assembly of booster sets with up to 4 pumps.



## INSTALLATION AND STARTUP

Connect the devices together using the serial port.

Program the Logicwall selected as Master following the instructions on the display.

Enable communication on the Master Logicwall that automatically will transfer the data to the other connected Logicwall 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 the pump for about 5 seconds without affecting the normal operation of the booster set.

# MODELS AND TECHNICAL FEATURES

## LOGICWALL

	SINGLE-PHASE /		THREE-PHASE
	M 8,5	M 11	M 13
<b>MODELS</b>			
			<b>THREE-PHASE /</b>
			T 6
<b>Mains voltage</b>	1 ~ 230 Vac	1 ~ 230 Vac	1 ~ 230 Vac
<b>Acceptable voltage fluctuations</b>	+/- 15%	+/- 15%	+/- 15%
<b>Frequency (automatic recognition)</b>	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
<b>Single-phase pump motor</b>	1 ~ 230 V	1 ~ 230 V	1 ~ 230 V
<b>Three-phase pump motor</b>	3 ~ 230 V Δ	3 ~ 230 V Δ	3 ~ 230 V Δ
<b>Maximum pump motor current</b>	8,5 A	11 A	13 A
<b>Maximum single-phase pump motor power</b>	1,1 kW - 1,5 HP	1,5 kW - 2 HP	2,2 kW - 3 HP
<b>Maximum three-phase pump motor power</b>	1,9 kW - 2,5 HP	2,2 kW - 3 HP	3 kW - 4 HP
<b>Motor soft start</b>	Yes	Yes	Yes
<b>Motor cable length up to 80 m</b>	Yes	Yes	Yes
<b>Maximum operating pressure</b>	25 bar	25 bar	25 bar
<b>Adjustable system pressure</b>	2 ÷ 25 bar	2 ÷ 25 bar	2 ÷ 25 bar
<b>Adjustable restart pressure</b>	1 ÷ 24 bar	1 ÷ 24 bar	1 ÷ 24 bar
<b>Adjustable minimum flow</b>	Yes	Yes	Yes
<b>Maximum operating temperature</b>	50 °C	50 °C	50 °C
<b>Protection degree*</b>	IP65	IP65	IP65
<b>Digital manometer</b>	Yes	Yes	Yes
<b>Digital ammeter</b>	Yes	Yes	Yes
<b>Dry running protection</b>	Yes	Yes	Yes
<b>Automatic restart</b>	Yes	Yes	Yes
<b>Anti-jamming function</b>	Yes	Yes	Yes
<b>Protection fuse</b>	Yes	Yes	Yes
<b>Irrigation mode (double pressure)</b>	Yes	Yes	Yes
<b>Pool/Industry mode (fixed speed)</b>	Yes	Yes	Yes
<b>Short-circuit protection between phases</b>	Yes	Yes	Yes
<b>Short-circuit protection between phases and earth</b>	Yes	Yes	Yes
<b>Amperometric protection</b>	Yes	Yes	Yes
<b>Voltage surge protection</b>	Yes	Yes	Yes
<b>Over-temperature protection</b>	Yes	Yes	Yes
<b>Pressure sensor fault detection</b>	Yes	Yes	Yes
<b>Flow switch connection</b>	Yes	Yes	Yes
<b>BMS protocol connection</b>	Yes	Yes	Yes
<b>Integrated NFC data transfer system</b>	Yes	Yes	Yes
<b>Connection for float switch and level probe</b>	Yes	Yes	Yes
<b>Remote ON/OFF connection</b>	Yes	Yes	Yes
<b>Remote "Pump on" connection</b>	Yes	Yes	Yes
<b>Remote alarm connection</b>	Yes	Yes	Yes
<b>Communication between devices</b>	Yes	Yes	Yes
<b>Overall dimensions (L x H x W) and weight</b>	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.





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## LOGICPRESS SET

### DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

It allows to set the restart pressure value 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.

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

Can be installed on surface and submersible pumps.

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





Maintenance free.

### TECHNICAL FEATURES

	LOGICPRESS SET
Single-phase mains voltage	230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50/60 Hz
Current max	10 A
Power max at 230V	1,5 kW (2 HP)
Adjustable restart pressure	1,5-2-2,5 bar
Protection degree	IP 65
Operating pressure max	12 bar
Operating temperature ma.	65 °C
Minimum flow	~1 l/min
Male connections	Gc 1"

### CONTROL PANEL

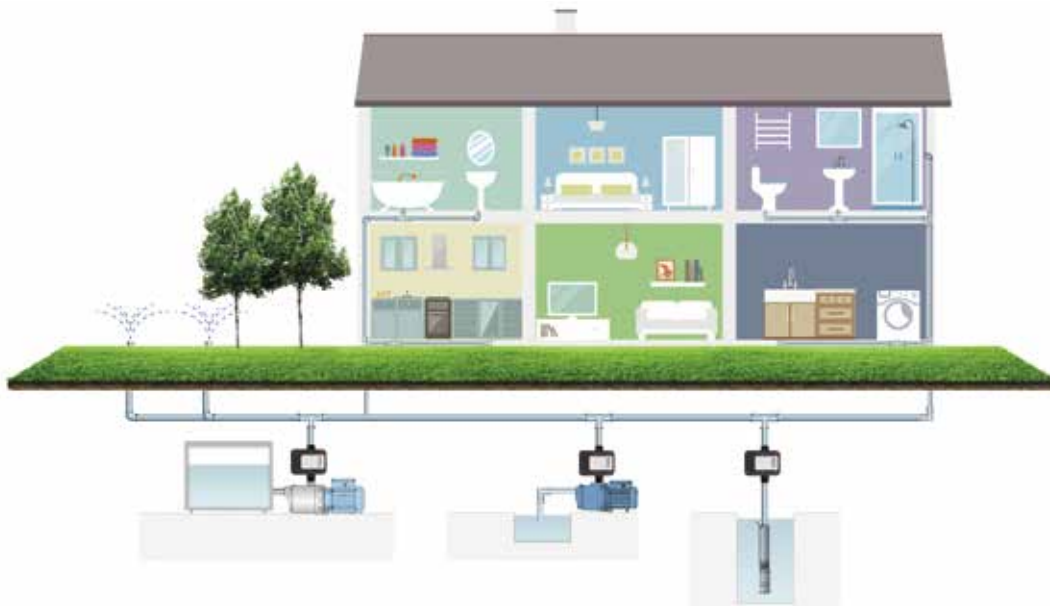
#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	<b>POWER ON</b>	Green led on	Device energized
	<b>PUMP ON</b>	Yellow led on	Pump running
	<b>FAILURE</b>	Red led blinking	Water shortage
	<b>RESTART</b>	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.



## SETTING THE RESTART VALUE

To change the restart value, press and hold the **Set** button for three seconds (see image). Repeat the operation until the green LED lights up at the desired restart value. Select the correct restart value suitable to the characteristics of the system.



2.5	Green led on	Restart value 2,5 bar
2	Green led on	Restart value 2 bar
1.5	Green led on	Restart value 1,5 bar
Set	Button	Restart value selection

RESTART PRESSURE	1,5 bar	2 bar	2,5 bar
FLOORS NUMBER	5	6	8
BUILDING HEIGHT (H)	15 mt	20 mt	25 mt
MAX PUMP PRESSURE	min 3 bar	min 3,5 bar	min 4 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 pump for about 5 seconds.

## OPTIONALS

- Blue/orange version (see picture).
- Manometer (0-12 bar range) factory mounted or supplied separately.
- Version 115 Vac
- GasOil version - suitable for use with petroleum and some chemicals.





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## LOGICPRESS

### DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

It can be energized at 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.

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

Can be installed on surface and submersible pumps.

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





Maintenance free.

### TECHNICAL FEATURES

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

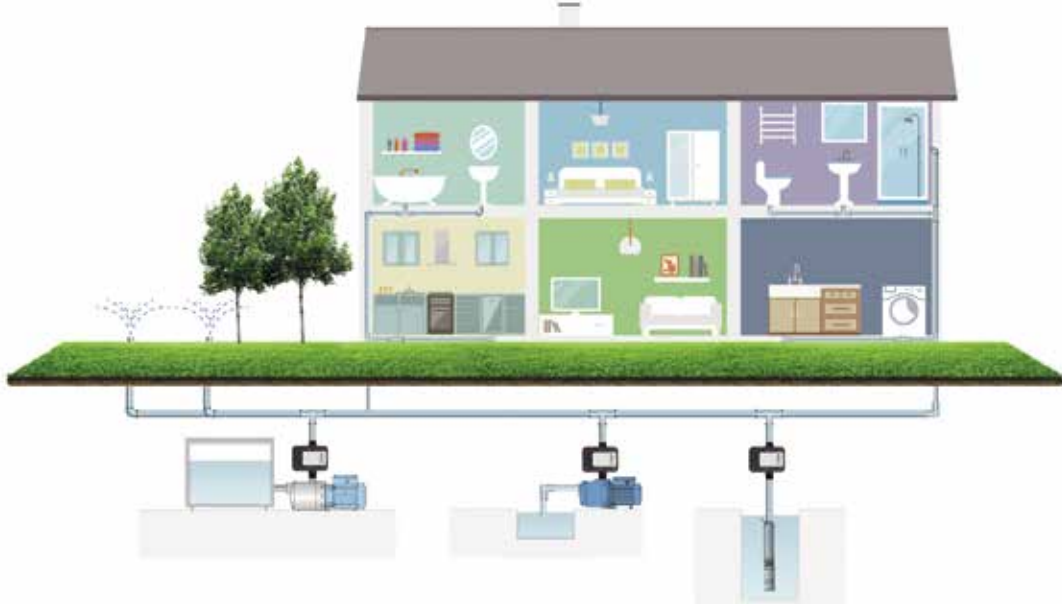
### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	<b>POWER ON</b>	Green led on	Device energized
	<b>PUMP ON</b>	Yellow led on	Pump running
	<b>FAILURE</b>	Red led blinking	Water shortage
	<b>RESTART</b>	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
 FLOORS NUMBER	4	5	7	10
 BUILDING HEIGHT (H)	12 mt	15 mt	22 mt	30 mt
 MAX PUMP PRESSURE	min 2,5 bar	min 3 bar	min 3,5 bar	min 4,5 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.

## OPTIONALS

- Blue/orange version (see picture).
- Manometer (0-12 bar range) factory mounted or supplied separately.
- Version 115 Vac.
- GasOil version - suitable for use with petroleum and some chemicals.





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## LOGICPRESS AF

### DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Allows to set the maximum time of continuous operation of the pump (ANTI FLOODING-FUNCTION).

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.

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

Can be installed on surface and submersible pumps.

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





Maintenance free.

### TECHNICAL FEATURES

	LOGICPRESS AF
Single-phase mains voltage	230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50/60 Hz
Current max	10 A
Power max	1,5 kW (2 HP)
Protection degree	IP 65
Operating pressure max	12 bar
Operating temperature max	65 °C
Minimum flow	~1 l/min
Male connections	Gc 1"

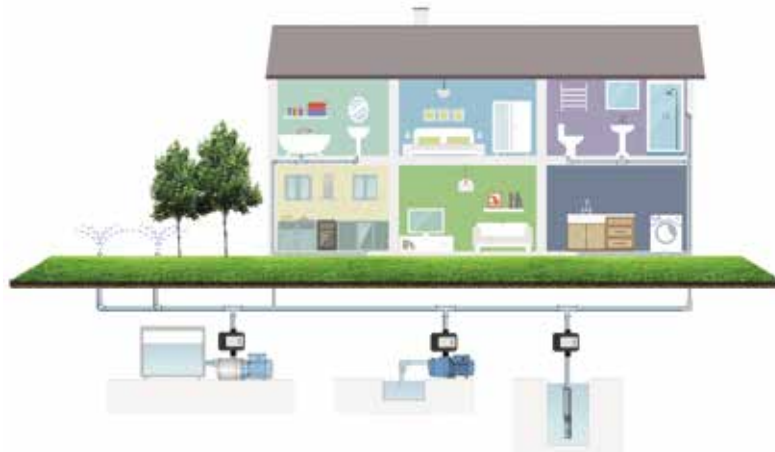
### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

	<b>POWER ON</b>	Green led on	Device energized
	<b>PUMP ON</b>	Yellow led on	Pump running
	<b>FAILURE</b>	Red led blinking	Water shortage
	<b>RESTART</b>	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.

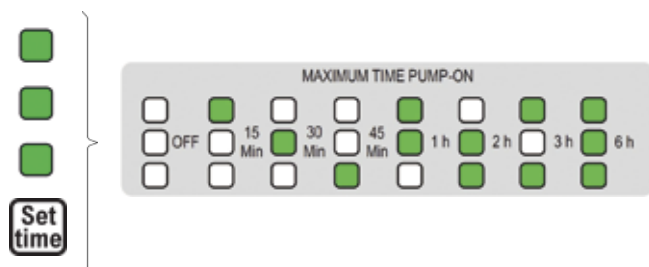
RESTART PRESSURE	1,2 bar	1,5 bar	2,2 bar	3 bar
FLOORS NUMBER	4	5	7	10
BUILDING HEIGHT (H)	12 mt	15 mt	22 mt	30 mt
MAX PUMP PRESSURE	min 2,5 bar	min 3 bar	min 3,5 bar	min 4,5 bar

## ANTI-FLOODING FUNCTION

Logicpress AF is equipped with anti-flooding function. This function is the possibility to set the maximum continuous running time after which the unit stops the pump. In this way, in the event of a pipe rupture, the device will stop the pump once the set time has been reached, limiting the damage caused by continuous water leakage. The use of Logicpress AF is therefore particularly suitable for second homes, garden irrigation and all poorly supervised applications.

## SETTING THE MAXIMUM CONTINUOUS RUNNING TIME OF THE PUMP

It is possible to select a maximum operating time from those shown in the following table:



Press and hold the "Set Time" key to set the maximum pump time on. Each combination of LEDs corresponds to the Maximum Pump-on time indicated in the table. If the continuous running time is exceeded, the device stops the pump and the red Failure light turns on. To restore normal operation, press the "Restart" key.

## 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

- Manometer (0-12 bar range) factory mounted or supplied separately.
- Version 115 Vac.
- Blu/Orange version.
- GasOil version - suitable for use with petroleum and some chemicals.



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## LOGICPRESS PLUS

### 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

	LOGICPRESS PLUS	LOGICPRESS PLUS R	LOGICPRESS PLUS 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

	<b>POWER ON</b>	Green led on	Device energized
	<b>PUMP ON</b>	Yellow led on	Pump running
	<b>FAILURE</b>	Red led blinking	Water shortage
	<b>RESTART</b>	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.

## LOGICPRESS PLUS R

It is different technically and aesthetically from the LOGICPRESS PLUS 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 counterclockwise 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

## LOGICPRESS PLUS 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.



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## LOGICPRESS 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

	LOGICPRESS 3PHASE	LOGICPRESS 3PHASE PLUS
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 4Gx1,5 mm <sup>2</sup>	H07RN-F 4Gx1,5 mm <sup>2</sup>

### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

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



## INSTALLATION AND STARTUP

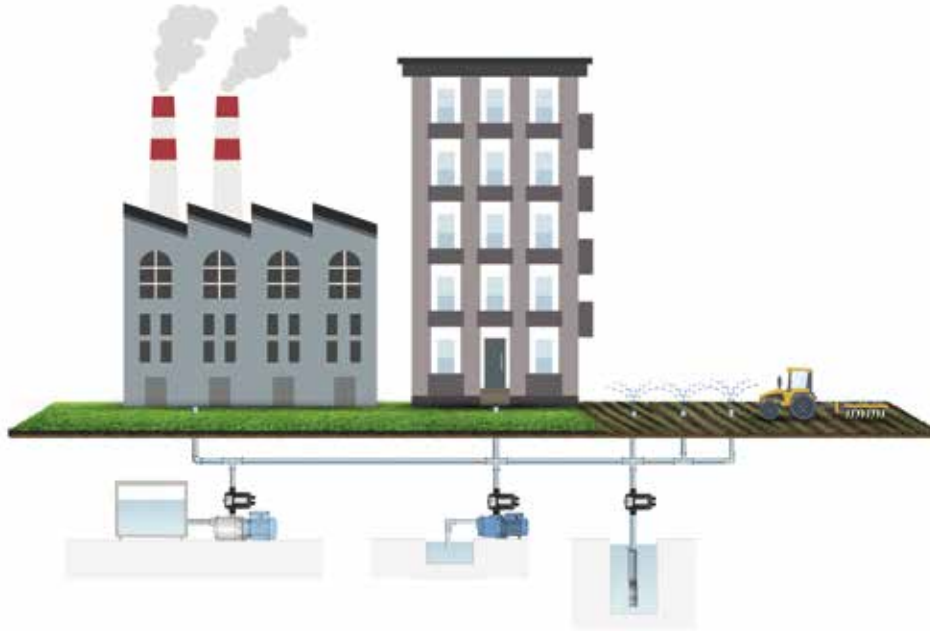
The device can be installed directly on the pump or between the pump and the first tap.

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.

## LOGICPRESS 3PHASE PLUS

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

It differs from LOGICPRESS 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.



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## LOGICCONTROL

### 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

	LOGICCONTROL
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	65 °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

	<b>POWER ON</b>	Green led on	Device energized
	<b>PUMP ON</b>	Yellow led on	Pump running
	<b>FAILURE</b>	Red led blinking	Water shortage
	<b>RESTART</b>	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.

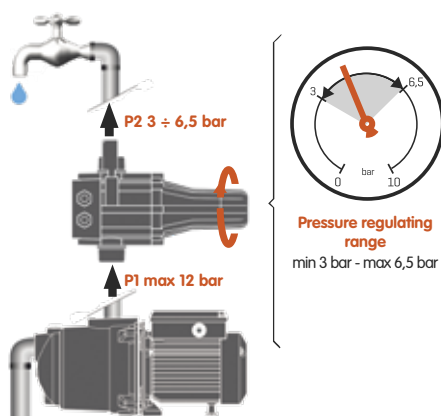
In case of water shortage, the device will stop the pump and protect it from dry running (red "Failure" led blinking).

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.



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## LOGICONTROL 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

	LOGICONTROL 3PHASE	LOGICONTROL 3PHASE PLUS
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 4Gx1,5 mm <sup>2</sup>	H07RN-F 4Gx1,5 mm <sup>2</sup>

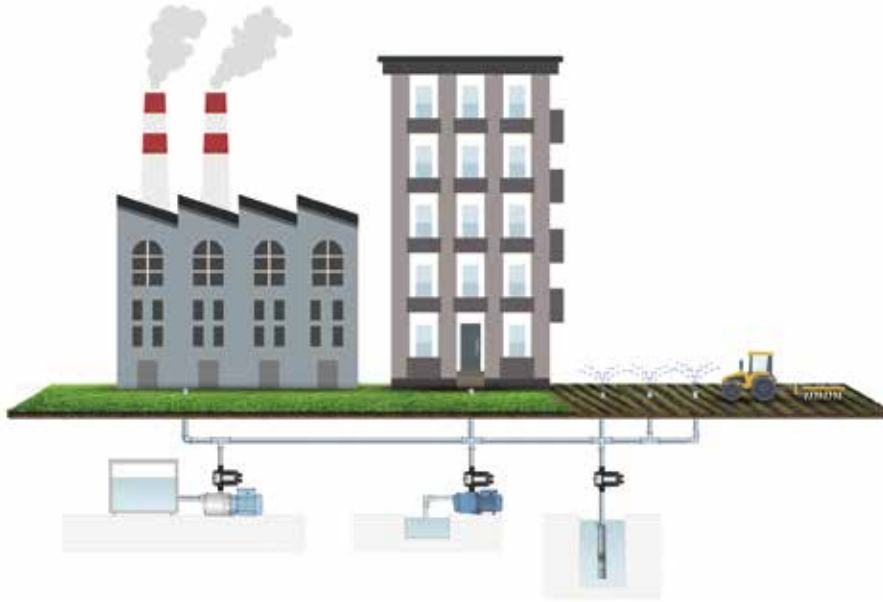
### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

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

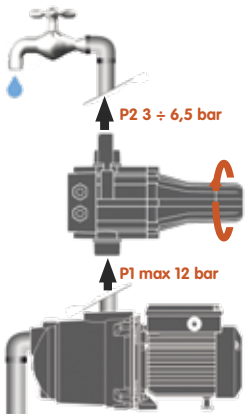
## INSTALLATION AND STARTUP

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 restart 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	12 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 restart 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 restart 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.

## LOGICONTROL 3PHASE PLUS

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



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## LOGICPRESS ST

### 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

	LOGICPRESS <i>ST</i>	LOGICPRESS <i>ST PLUS</i>	LOGICPRESS <i>ST PLUS T</i>
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 115 V	—	0,55 kW (0,75 HP)	0,55 kW (0,75 HP)
Power max at 230 V	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"

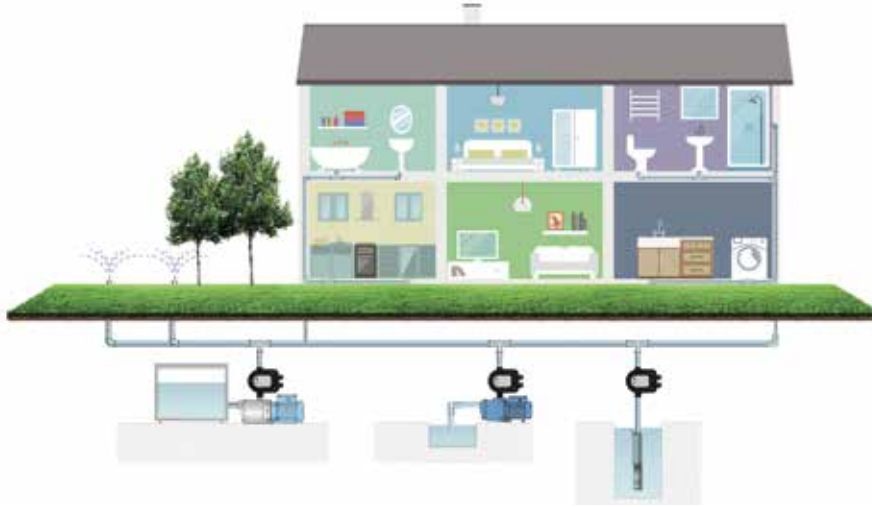
### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES

	<b>POWER ON</b>	Green led on	Device energized
	<b>PUMP ON</b>	Yellow led on	Pump running
	<b>RESTART</b>	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

## LOGICPRESS ST PLUS

Logicpress ST PLUS is equipped with the red Failure LED to signal water shortage.

### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

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



## LOGICPRESS ST PLUS T

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



Made in Italy

# LOGICFLOW

## 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

	LOGICFLOW	LOGICFLOW <i>PLUS</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

	<b>POWER ON</b>	Green led on	Device energized
	<b>PUMP ON</b>	Yellow led on	Pump running
	<b>RESTART</b>	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

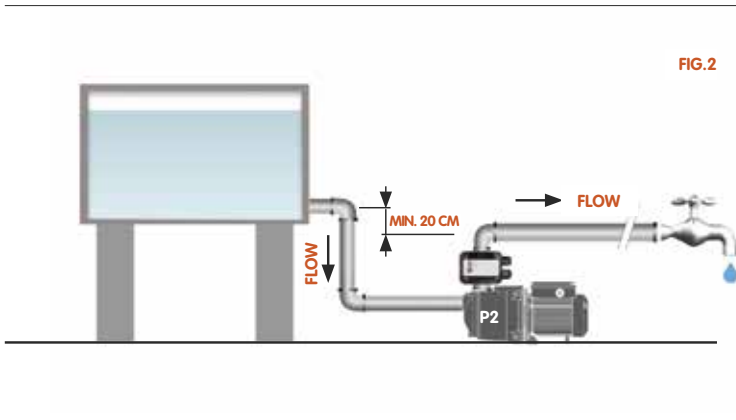


FIG.2

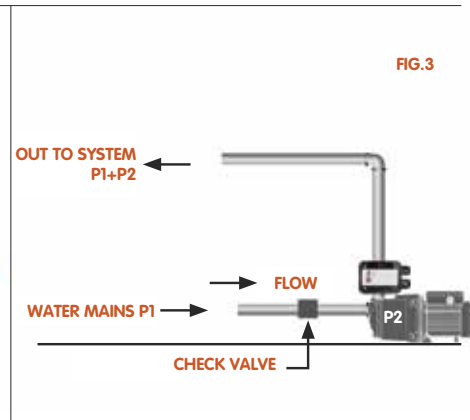


FIG.3

## LOGICFLOW PLUS

The PLUS 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 (antijamming 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.

### MODELS AND TECHNICAL FEATURES

	DUTY/STAND-BY APPLICATION		DUTY/ASSIST 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 for each pump	1,5 kW - 2 HP	1,5 kW - 2 HP	0,75 kW - 1 HP	0,75 kW - 1 HP
Minimum pwm frequency (with VFD)	—	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

	<b>POWER ON</b>	Green led on	Device energized
	<b>PUMP 1 ON</b>	Yellow led on	Pump 1 on
	<b>PUMP 2 ON</b>	Yellow led on	Pump 2 on
	<b>FLOAT</b>	Red 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 36 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 37 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 assembly two-pump-booster set with a single inverter of the Wall series.






### TECHNICAL FEATURES

	BOOSTER KIT EVO
Single-phase mains voltage	230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50/60 Hz
Current max	12 A
Minimum pwm frequency (with VFD)	1,1 kW (1,5 HP)
Protection degree	IP 55
Operating temperature max	50 °C



### CONTROL PANEL

#### SIGNALING OF THE WORKING PHASES AND ANOMALIES

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

## OPERATION

Install the device as shown in figure 1C page 36 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 inverters.

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

## AUTOMATIC RESTARTS

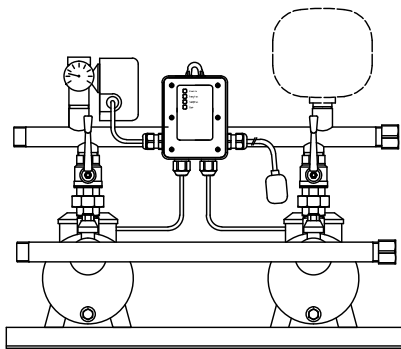
The Booster Kit devices managed by a VFD of the Wall series are equipped with automatic restarts and anti-jamming function. In case of stopping due to a water shortage, the device will automatically make 10 double attempts to rearm over the 24 hours following the failure, each lasting approximately 5 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 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 pressure set. In case of a temporary blackout, the pressure set will automatically rearm once the electricity returns.

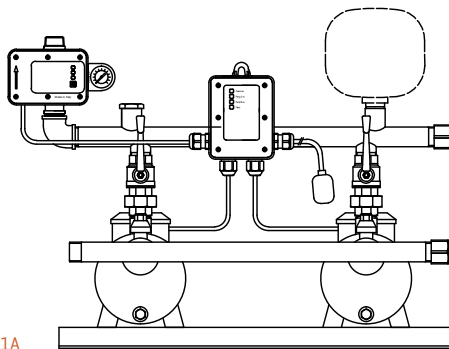
## EXAMPLES OF INSTALLATION IN DUTY/STAND-BY MODE

### BOOSTER KIT WITH PRESSURE SWITCH



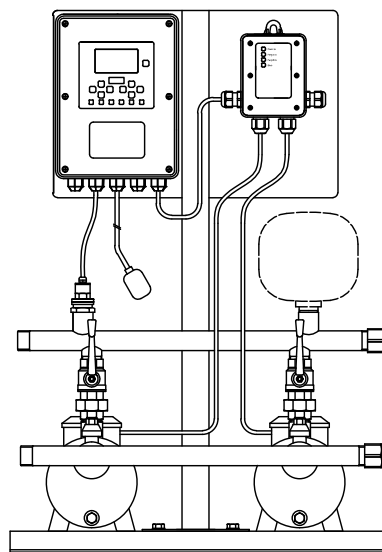
ON/OFF Version

### BOOSTER KIT WITH PRESSCONTROL



ON/OFF Version

### BOOSTER KIT WITH VFD

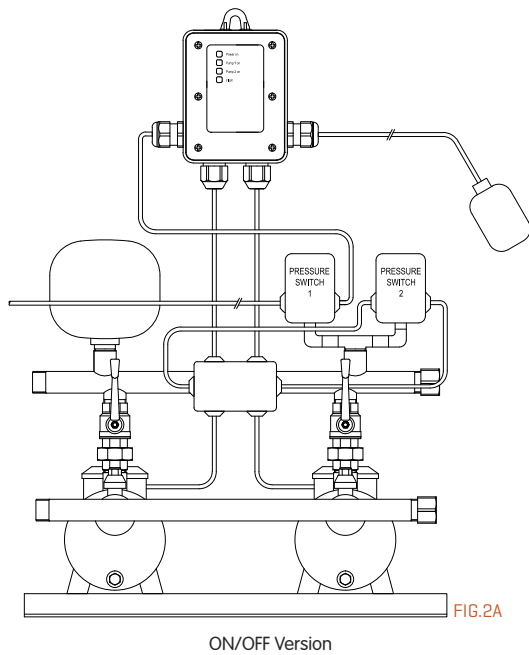


VFD Version

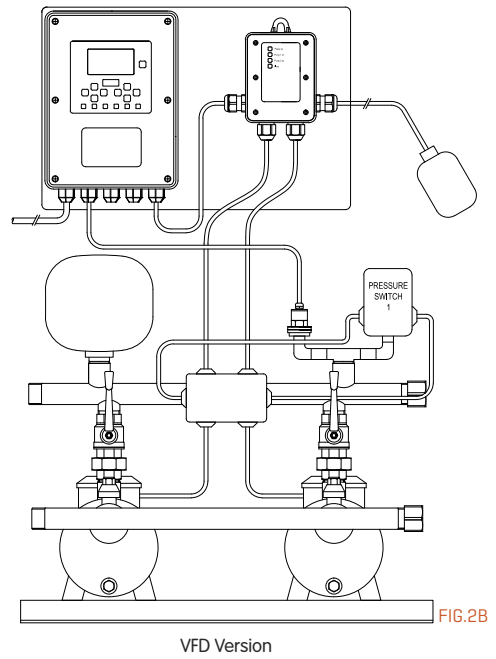
FIG.1C

## EXAMPLES OF INSTALLATION IN DUTY/ASSIST MODE

### BOOSTER KIT WITH PRESSURE SWITCH



### BOOSTER KIT WITH VFD



## TRANSFER SET

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

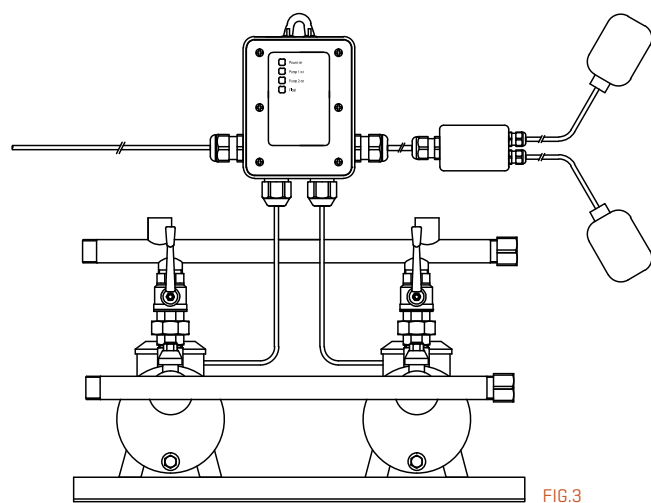
Install the device as shown in figure 3 and energize.

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.





Made in Italy

## LOGIC 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.

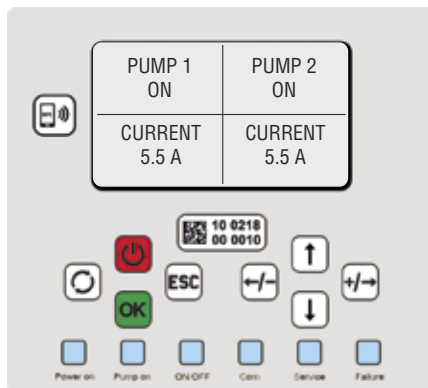
Data transmission with NFC technology as standard.

### TECHNICAL FEATURES

	LOGIC 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 Logic 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.



The figure shows an example of displaying 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

- Power on** Voltage presence
- Pump on** Pump / Pumps running
- ON/OFF** Panel On or Off
- Com** Communication between devices is active
- Service** Request for maintenance
- Failure** Operating error

-  **ON/OFF BUTTON** Starts and stops the pump
-  **ESC BUTTON** Return to main menu
-  **OK BUTTON** To access programming and confirm data entry
-  **RESTART BUTTON** 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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## LOGIC GSM

Universal GSM device for data reception and transmission.

It is equipped with analog and digital inputs and outputs.

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





Send/Receive data via SMS.

### TECHNICAL FEATURES

	LOGIC GSM
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

	<b>POWER ON</b>	Green led on	Device energized
	<b>COM</b>	Green led on	Communication between devices is active
	<b>NETWORK</b>	Yellow led on	GSM network available
	<b>DATA TRANSFER</b>	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 Logic GSM.

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 Logic GSM 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.





Made in Italy

# LOGICSTOP

## 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

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

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

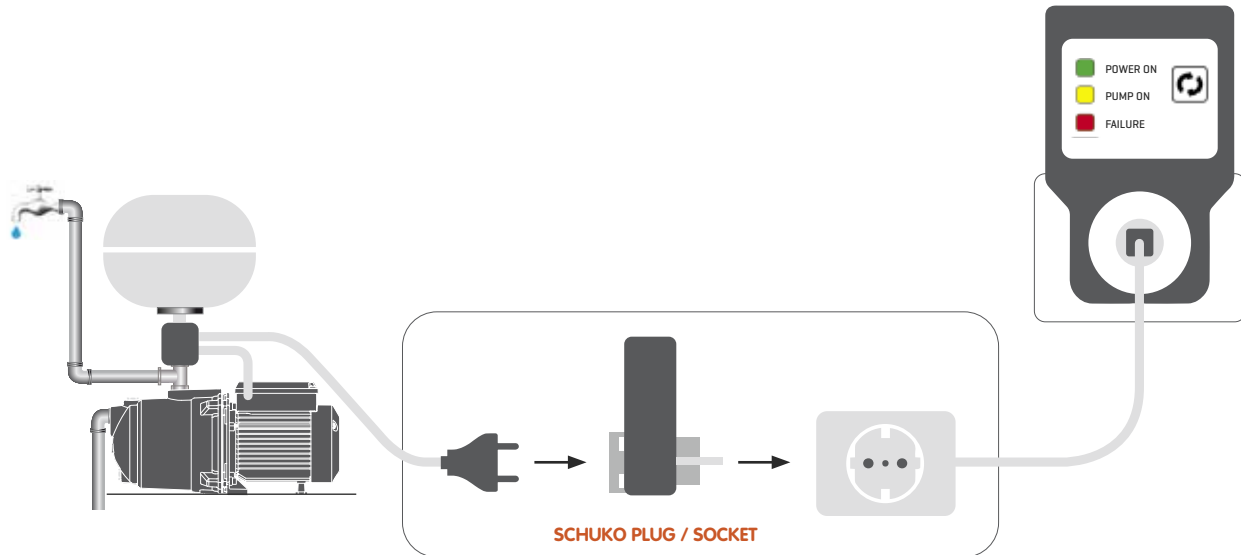
	<b>POWER ON</b>	Green led	On	Device energized
	<b>PUMP ON</b>	Yellow led	On	Pump running
	<b>FAILURE</b>	Red led	Blinking On	Water shortage Overcurrent
	<b>RESTART</b>	Button		Motor data acquisition Reset after failure

## 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 Plus 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.

## LOGICSTOP PLUS

This is the enhanced version of the LOGICSTOP.

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

## SPECIAL VERSIONS

### > LOGICSTOP IP65 / LOGICSTOP IP65 PLUS

- Logicstop e Logicstop Plus versions with IP65 degree of protection (see photo).

### > LOGICSTOP "AUSTRALIA"

- Version with Australian plug/socket.

### > LOGICSTOP INTEGRATO

- The "on-board" version of Logicstop, inserted directly into the terminal box cover of the pump.

Only made on request.



# QUALITY MARKS AND CERTIFICATIONS





**NOTE**

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by



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