



CONTROL BOX





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PUMPSTOP *Up*



PRESSCONTROL



ELECTRONIC DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Can be energised 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 against dry running.

Can be installed on surface and submersible pumps.

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





Maintenance free.

TECHNICAL FEATURES

Single-phase mains voltage	115/230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50-60 Hz
Maximum Current	10 A
Maximum Power	0,75 kW (1 HP) a 115 V - 1,5 kW (2 HP) a 230 V
Protection degree	IP65
Maximum operating pressure	12 bar
Maximum operating temperature	65°C
Minimum flow	~1 l/min
Male connectors	Gc 1"
Certified by	TÜV SÜD

CONTROL PANEL

SIGNALING OF THE WORKING PHASES AND ANOMALIES

Green led on		Power on	Device energised
Yellow led on		Pump on	Pump running
Red led on		Failure	Water shortage
Button		Restart	Reset after failure

INSTALLATION AND START UP

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.

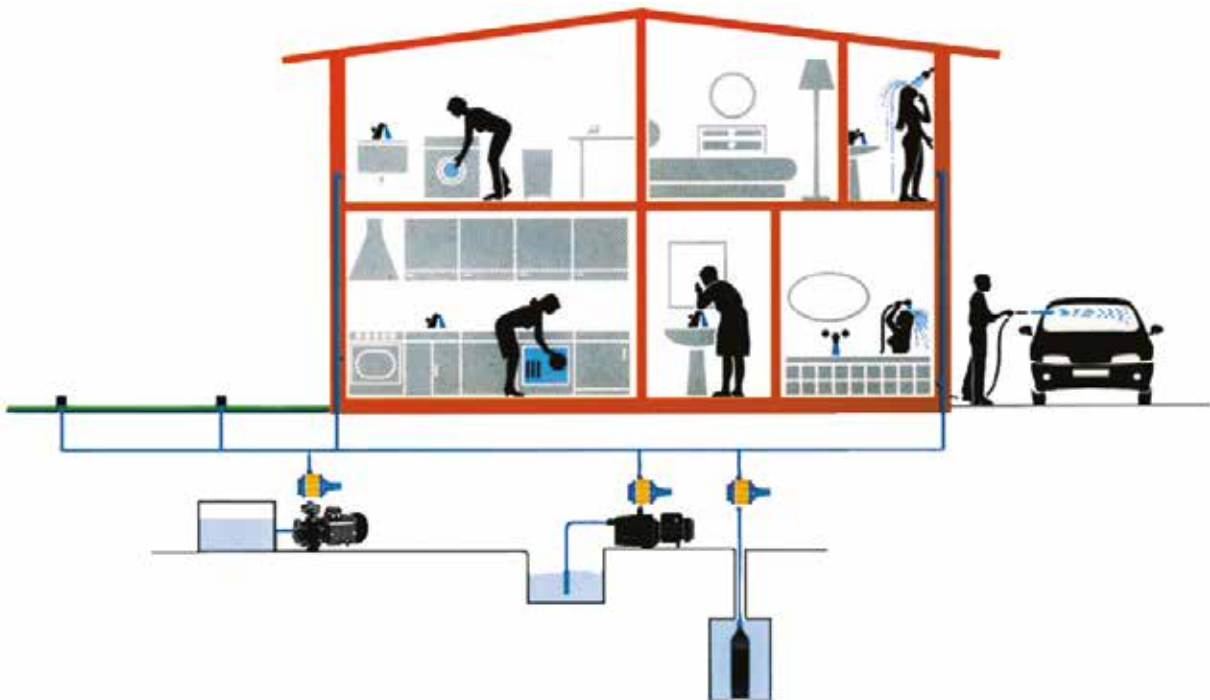
The green "Power on" led will light up on the control panel and the pump will start (yellow "Pump on" led on) and will keep running for several seconds to start up the system. If this time is insufficient, the device will stop the pump (red "Failure" led on). Keep the Restart button pushed in until the red Failure led turns off and the water comes out of the opened tap.

When the tap is closed the pump will stop after a few seconds (yellow "Pump on" led turns off).

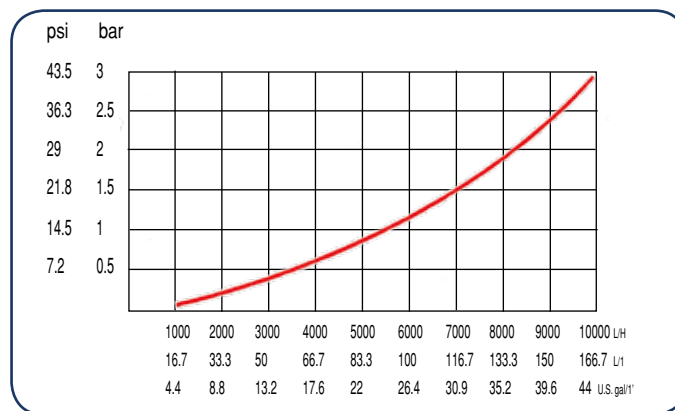
From now on the device will turn the pump on and off depending on the opening and closing of the tap.

In case of water shortage the device will stop the pump and protect against dry running (red "Failure" led on).

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



PRESSURE FLOW CHART



ACCESSORIES AND VARIANCES

On request the device can be supplied with:

- Wired electric cables.
- Cut-in pressure values 1,2, 2,2 or 3 bar different from the standard (1,5 bar).

PRESSCONTROL *Up*



Made in Italy



ELECTRONIC DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Can be energised 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 against 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

Single-phase mains voltage	115/230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50-60 Hz
Maximum Current	10 A
Maximum Power	0,75 kW (1HP) at 115V - 1,5 kW (2 HP) at 230V
Protection degree	IP65
Maximum operating pressure	12 bar
Maximum operating temperature	65°C
Minimum flow	~1 l/min
Male connectors	Gc 1"
Certified by	TÜV SÜD

CONTROL PANEL

SIGNALING OF THE WORKING PHASES AND ANOMALIES

Green led on		Power on	Device energised
Yellow led on		Pump on	Pump running
Red led on		Failure	Water shortage
Button		Restart	Reset after failure

INSTALLATION AND START UP

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.

The green "Power on" led will light up on the control panel and the pump will start (yellow "Pump on" led on) and will keep running for several seconds to start up the system. If this time is insufficient, the device will stop the pump (red "Failure" led on). Keep the Restart button pushed in until the red Failure led turns off and the water comes out of the opened tap.

When the tap is closed the pump will stop after a few seconds (yellow "Pump on" led turns off).

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 against dry running (red "Failure" led on).

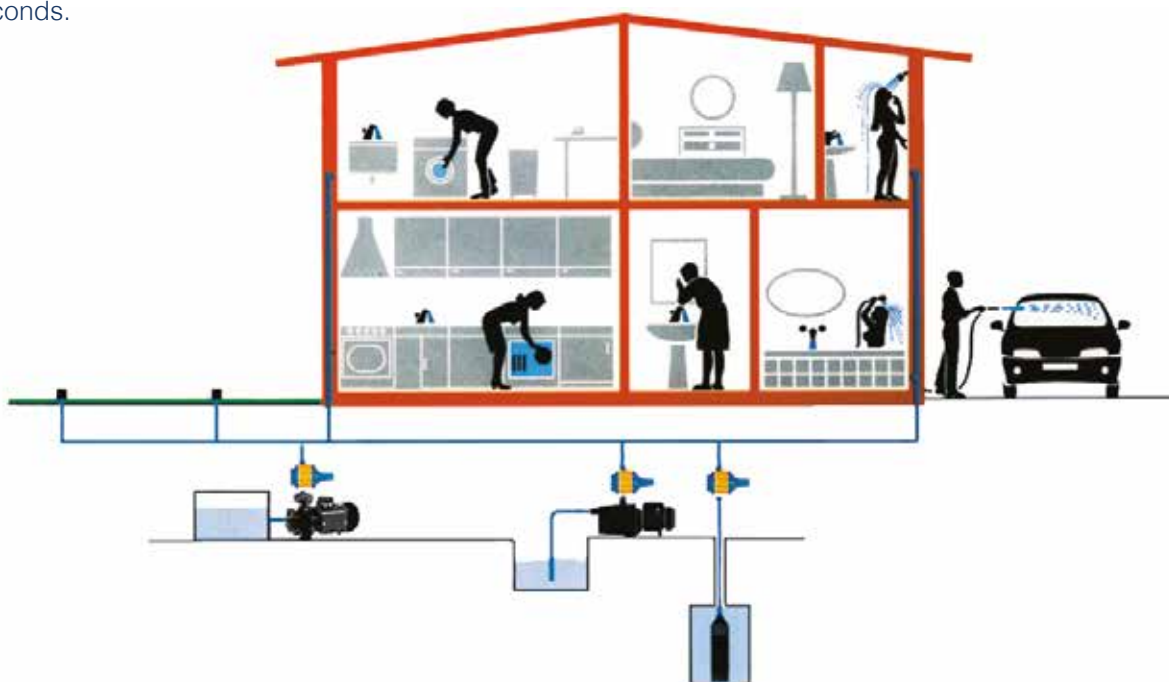
In case of a temporary blackout, the device will automatically rearm once the electricity returns.

AUTOMATIC RESTART AND ANTI-JAMMING FUNCTION

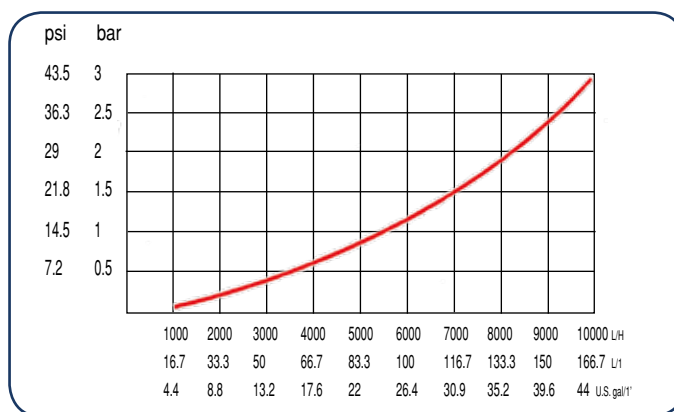
In case of stopping due to a water shortage, the device will automatically make 10 double attempts to rearm over the 24 hours following the failure, each lasting approximately 5 seconds to allow the pump and the system to reload if possible. After the last failed rearming attempt, the device will remain permanently in alarm (red Failure led on) pending manual rearming by pressing the Restart button .

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 carry out a start up of the pump motor for about 5 seconds.



PRESSURE FLOW CHART



ACCESSORIES AND VARIANCES

On request the device can be supplied with:

- Wired electric cables.
- Cut-in pressure values 1,2, 2,2 or 3 bar different from the standard (1,5 bar).



PRESSCONTROL *Evo*



VARIABLE FREQUENCY DRIVE FOR CONTROL AND PROTECTION OF THE PUMP

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

Allows to regulate the system pressure and the cut-in 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.

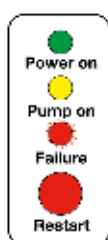
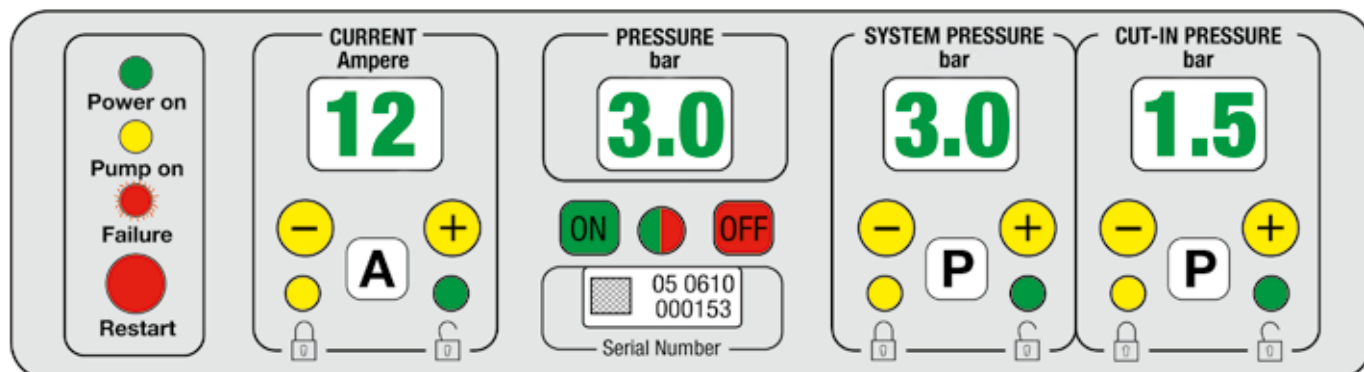
Ensures energy saving.

Can be installed on surface and submersible pumps.

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

Maintenance free.

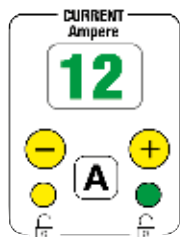
CONTROL AND ADJUSTMENT PANEL



Power On	Green led	Device energised
Pump On	Yellow led on	Pump running
Failure	Red led blinking	Water shortage or malfunctioning
Restart	Button	Reset after failure



Buttons Access and locking of keypad



SETTING THE VALUE OF THE CURRENT ABSORBED BY THE MOTOR

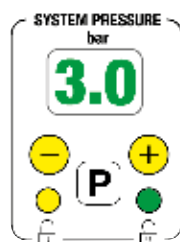
Read the value of the current in Amperes on the pump motor nameplate. Press the **A** button (green LED on) and set the value on the display using the **+** (plus) and **-** (minus) buttons (0.5 A steps). Set the value by pressing the button **A** (yellow LED on) to lock the adjustment made. When the pump is running the real motor absorption value will appear on the display.



Manometer Indicates the real value of the system pressure.

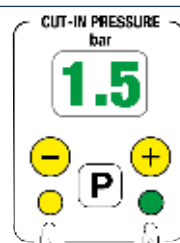
Switch { Press the green **ON** button (green LED on) to start the pump and the **OFF** button to turn it off (red LED on).

Identification Specific serial number and data of the device.



SETTING THE VALUE OF THE SYSTEM PRESSURE

Press the **P** button (green LED on) and set the value on the display using the **+** (plus) and **-** (minus) buttons (0.5 A steps). After setting the desired value, press the **P** button (yellow LED on) to lock the adjustment made.



SETTING THE CUT-IN VALUE OF THE PUMP

Press **P** the button (green LED on) and set the value on the display using the **+** (plus) and **-** (minus) buttons (0.1 bar steps). After setting the desired value, press the **P** button again (yellow LED on) to lock the adjustment made.

INSTALLATION AND START UP

Instal the device in vertical position directly on the pump or between the pump and the first user.

Make all electrical connections following the diagrams below and connect to main power supply.

On the control panel the green "Power on" led and the red **OFF** led on the switch will light up.

Blinking dashes will appear on all the displays while the device carries out the set-up operations. 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 will start blinking and the yellow **A** and **P** leds will light up.

The value of the pressure of the system will appear on the Pressure display.

Set the current value absorbed by the motor as indicated on the relative nameplate.

To adapt the plant to the desired operations, different pressure values can be set than the factory-set ones: system pressure 3 bar - cut-in pressure 1.5 bar.

The set pressure value of the system must be lower than the maximum effective pressure generated by the pump and compatible with the desired pump delivery.

The set cut-in pressure value must be higher than the pressure extended on the device by the water column height.

After setting the values, press the **ON button of the switch (green led on) to start.**

When the pump is in operation the real value of the current absorbed by the motor will appear on the Current display.

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

EXAMPLE OF PARAMETERS SETTING

- 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 **lower than the maximum effective pressure** generated by the pump.

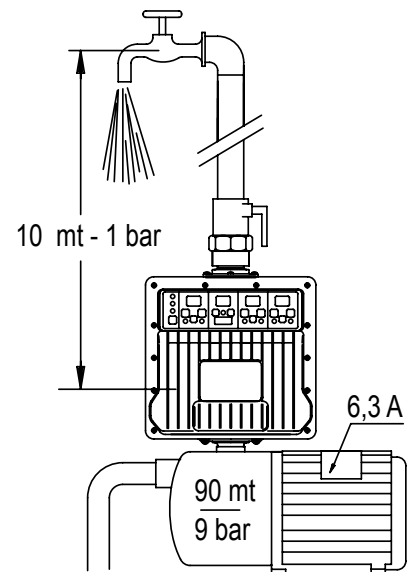
Example: maximum pump pressure 9 bar → max 8,5 bar

- CUT-IN PRESSURE

Adjustment step 0.1 bar

Set the desired value higher of at least **~0.5 bar than the pressure** exerted by the water column.

Example: water column pressure 1 bar → min 1.5 bar



It is possible to change the set pressure values even while the pump is operating.

Before changing the value of the absorbed current (amperes) of the motor, press the **OFF** button (red led on) of the switch on the current display.

AUTOMATIC RESTART 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.

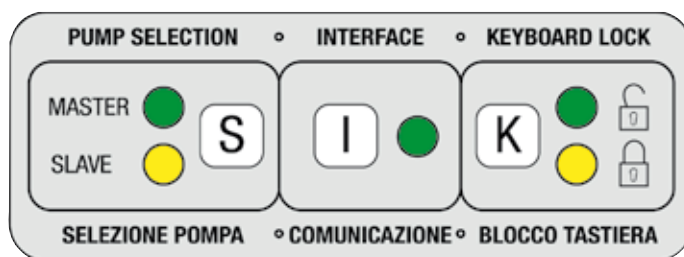
After the last failed rearming attempt, the device will remain permanently in alarm (red Failure led blinking) pending manual rearming by pressing the "Restart" button.

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 carry out a start up of the pump motor for about 5 seconds.

PRESSURE SETS - COMMUNICATION BETWEEN DEVICES

Each model of Evo Series in the “COM” version is standardly equipped with interface and communication cable



INSTALLATION AND PARAMETERS SETUP

Set the current values of all the devices on the Control panel.

Select the Master device and the Slave devices from the communication panel.

To change the set system pressure and cut-in values of both devices, act on the Master device only, even while the pumps are running.

System pressure values and the cut-in values set on the Master device are automatically transferred onto the Slave devices.

OPERATION

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

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

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

The alternation of start-up and operation of the pumps that constitute the pressure-set, guarantees a uniform wear therefore longer life of the group.

Act only on the Master device to modify the set pressure values (also while the pumps are running), to connect remote “on/off”, alarm and level probes.

Master - By pressing the button **OFF** (red led on) the Master device is disabled and the unit stops.

Slave - By pressing the button **OFF** (red led on) only the relative Slave device is disabled.

ALTERNATING THE PUMPS DURING CONTINUOUS OPERATION

If for any reason one or more pumps are working continuously, in order to guarantee uniform wear and tear 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.

AUTOMATIC RESTART AND ANTI-JAMMING FUNCTION

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 pumps and the system to reload if possible. After the last failed rearming attempt, the devices will remain permanently in alarm (red Failure led blinking) pending manual rearming by pressing the “Restart” button.

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

If for any reason the pumps remain idle for 24 consecutive hours, the devices will carry out a start up of the pump motor for about 5 seconds without affecting the normal operation of the unit.

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

VARIABLE MASTER

In case of malfunctioning of the Master device, the system will transfer the operation to the Slave device immediately upstream from the Master. Once the original Master device has been reset, it will automatically be reintegrated into the system as a Slave device.

PRESSCONTROL EVO MM - MT - TT

VOLTAGE/MOTOR MODELS	MM - 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
Frequency 140 Hz motor	—	—	—
Pump motor voltage	1 ~ 230 Vac	1 ~ 230 Vac	1 ~ 230 Vac
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
Soft "engine start"	Yes	Yes	Yes
Electrical connection cable to mains H07 RN-F	3G 1,5 mm ² L 1,5 m schuko plug		
Electrical connection cable to motor H07 RN-F	3G 1,5 mm ² L 1,5 m		
Length of 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
Removable pressure sensor	Spare part available on request		
Remote ON/OFF connection predisposition	Yes	Yes	Yes
Float switch and level probe connections predisposition	Yes	Yes	Yes
Remote alarm connection predisposition	Yes	Yes	Yes
Accumulation	Incorporated	Incorporated	Incorporated
Check valve	Incorporated	Incorporated	Incorporated
Water discharge	Yes	Yes	Yes
Male connections	1" - 1"	1" 1/4 - 1" 1/4	1" 1/4 - 1" 1/4
Interchangeable male connectors	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 and weight	260 x 312 x 285 mm ~ 5 Kg		
TÜV SÜD Certification	Z1 14 03 73297 010		

Communication between devices —

For each model is available the

MODELS AND TECHNICAL FEATURES

MT - SINGLE-PHASE/THREE-PHASE		TT - THREE-PHASE/THREE-PHASE			
MT 8,5	MT 11	TT 6	TT 9	TT 12	TT 16
1 ~ 230 Vac	1 ~ 230 Vac	3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac
+/- 15%	+/- 15%	+/- 15%	+/- 15%	+/- 15%	+/- 15%
50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
—	Available on request	Available on request			
3 ~ 230 Vac	3 ~ 230 Vac	3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac
8,5 A	11 A	6 A	9 A	12 A	16 A
1,9 kW - 2,5 HP	2,2 kW - 3 HP	2,2 kW - 3 HP	3 kW - 4 HP	5,5 kW - 7,5 HP	7,5 kW - 10 HP
—	—	—	—	—	—
3G 1,5 mm ² L 1,5 m schuko plug		4G 1,5 mm ² L 1,5 m		4G 2,5 mm ² L 1,5 m	
4G 1,5 mm ² L 1,5 m		4G 1,5 mm ² L 1,5 m		4G 2,5 mm ² L 1,5 m	
Yes	Yes	Yes	Yes	Yes	Yes
16 bar	16 bar	16 bar	16 bar	16 bar	16 bar
2 ÷ 12 bar	2 ÷ 12 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 ÷ 11 bar	1 ÷ 11 bar
~ 1 l/min	~ 1 l/min	~ 1 l/min	~ 1 l/min	~ 1 l/min	~ 1 l/min
60 °C	60 °C	60 °C	60 °C	60 °C	60 °C
IP 65	IP 65	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
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
Spare part available on request		Spare part available on request			
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Incorporated	Incorporated	Incorporated	Incorporated	Incorporated	Incorporated
Incorporated	Incorporated	Incorporated	Incorporated	Incorporated	Incorporated
Yes	Yes	Yes	Yes	Yes	Yes
1" - 1"	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" 1/4 - 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	1" 1/2 - 1" 1/2
Yes	Yes	Yes	Yes	Yes	Yes
260 x 312 x 285 mm ~ 5 Kg		260 x 312 x 320 mm ~ 7 Kg			
Z1 14 03 73297 011		Z1 14 03 73297 012			

“COM” version that is standardly equipped with interface and communication cable

MASCONTROL



ELECTRONIC DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Can be energised 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 connectors to guarantee a higher water flow.

Stops the pump in case of a water shortage and protects it against 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

Single-phase mains voltage	115/230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50-60 Hz
Maximum Current	16 A
Maximum Power	1,1 kW (1,5 HP) at 115V - 2,2 kW (3 HP) at 230V
Protection degree	IP65
Maximum operating pressure	12 bar
Maximum operating temperature	65°C
Minimum flow	~1 l/min
Male connectors	Gc 1" - 1"1/4
Certified by	TÜV SÜD

CONTROL PANEL

SIGNALING OF THE WORKING PHASES AND ANOMALIES

Green led on		Power on	Device energised
Yellow led on		Pump on	Pump running
Red led on		Failure	Water shortage
Button		Restart	Reset after failure

INSTALLATION AND START UP

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

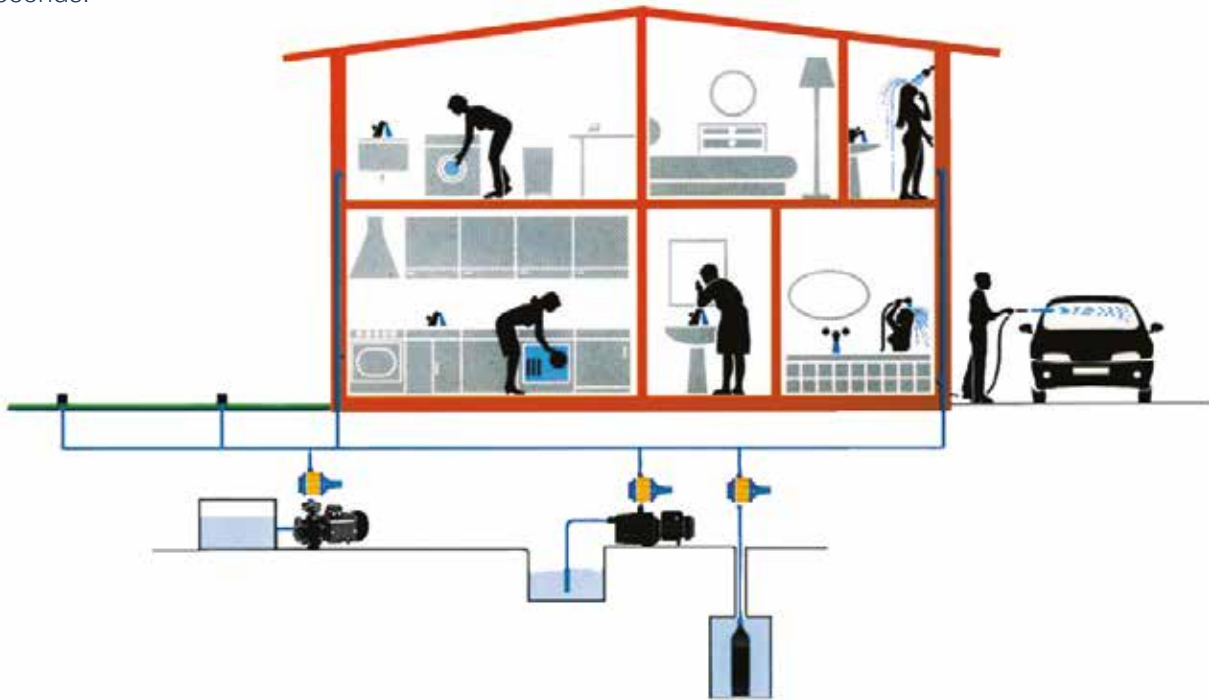
Make all the electrical connections, check that the pump is correctly primed, open a tap and energize. The green "Power on" led will light up on the control panel and the pump will start (yellow "Pump on" led on) and will keep running for several seconds to start up the system. If this time is insufficient, the device will stop the pump (red "Failure" led on). Keep the Restart button pushed in until the red Failure led turns off and the water comes out of the opened tap. When the tap is closed the pump will stop after a few seconds (yellow "Pump on" led turns off). 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 against dry running (red "Failure" led on). In case of a temporary blackout, the device will automatically rearm once the electricity returns.

AUTOMATIC RESTART AND ANTI-JAMMING FUNCTION

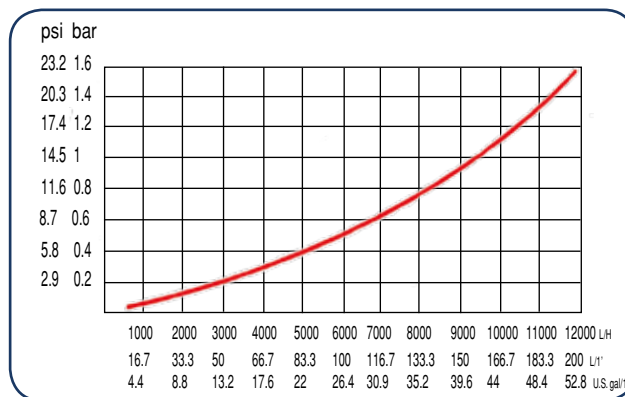
In case of stopping due to a water shortage, the device will automatically make 10 double attempts to rearm over the 24 hours following the failure, each lasting approximately 5 seconds to allow the pump and the system to reload if possible. After the last failed rearming attempt, the device will remain permanently in alarm (red Failure led on) pending manual rearming by pressing the Restart button.

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 carry out a start up of the pump motor for about 5 seconds.



PRESSURE FLOW CHART



ACCESSORIES AND VARIANCES

On request the device can be supplied with:

- Wired electric cables.
- Cut-in pressure values 1,2, 2,2 or 3 bar different from the standard (1,5 bar).

CONTROLPRES



ELECTRONIC DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Can be energised with either 115 Vac or 230 Vac.

Starts and stops the pump depending on opening and closing of the taps.
It reduces the maximum pressure generated by the pump to the desired value.
Stops the pump in case of a water shortage and protects it against 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

Single-phase mains voltage	115/230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50-60 Hz
Maximum Current	16 A
Maximum Power	1,1 kW (1,5 HP) at 115V - 2,2 kW (3 HP) at 230V
Protection degree	IP65
Maximum operating pressure	12 bar
Maximum operating temperature	65°C
Minimum flow	~1 l/min
Male connectors	Gc 1" 1/4
Certified by	TÜV SÜD

CONTROL PANEL

SIGNALING OF THE WORKING PHASES AND ANOMALIES

Green led on		Power on	Device energised
Yellow led on		Pump on	Pump running
Red led on		Failure	Water shortage
Button		Restart	Reset after failure

INSTALLATION AND START UP

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.

The green "Power on" led will light up on the control panel and the pump will start (yellow "Pump on" led on) and will keep running for several seconds to start up the system. If this time is insufficient, the device will stop the pump (red "Failure" led on). Keep the Restart button pushed in until the red Failure led turns off and the water comes out of the opened tap.

When the tap is closed the pump will stop after a few seconds (yellow "Pump on" led turns off).

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

To set the pressure to the desired value, turn the knob on the backside of the device (regulating range from 2,5 to 7 bar)

In case of water shortage the device will stop the pump and protect against dry running (red "Failure" led on).

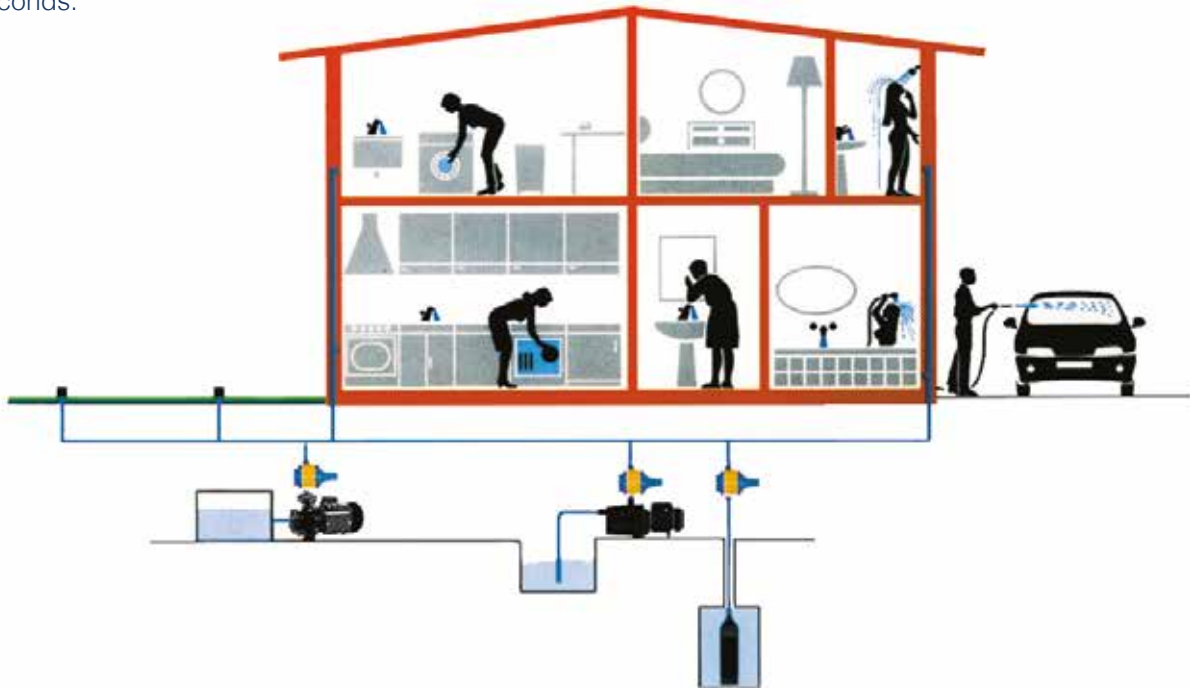
In case of a temporary blackout, the device will automatically rearm once the electricity returns.

AUTOMATIC RESTART AND ANTI-JAMMING FUNCTION

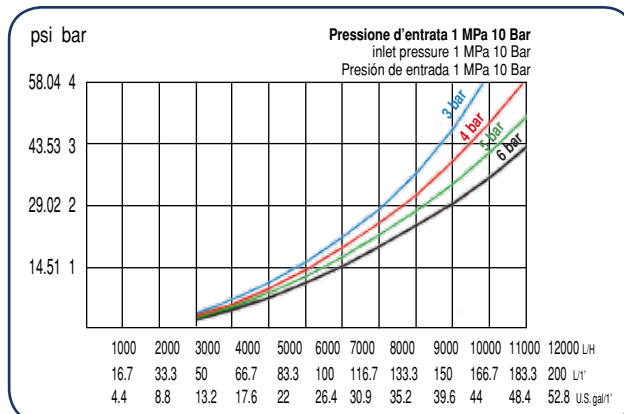
In case of stopping due to a water shortage, the device will automatically make 10 double attempts to rearm over the 24 hours following the failure, each lasting approximately 5 seconds to allow the pump and the system to reload if possible. After the last failed rearming attempt, the device will remain permanently in alarm (red Failure led on) pending manual rearming by pressing the Restart button.

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 carry out a start up of the pump motor for about 5 seconds.



PRESSURE FLOW CHART



ACCESSORIES AND VARIANCES

On request the device can be supplied with:

- Wired electric cables.

MONDIALPRESS



ELECTRONIC DEVICE FOR CONTROL AND PROTECTION OF THE PUMP

Can be energised 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 against dry running.**

Can be installed on surface and submersible pumps.

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





Maintenance free.

TECHNICAL FEATURES

Single-phase mains voltage	115/230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50-60 Hz
Maximum Current	8 A
Maximum Power	0,55 kW (0,75 HP) at 115V - 1,1 kW (1,5 HP) at 230V
Protection degree	IP65
Maximum operating pressure	10 bar
Maximum operating temperature	60°C
Minimum flow	~1 l/min
Male connectors	Gc 1"
Certified by	TÜV SÜD

CONTROL PANEL

SIGNALING OF THE WORKING PHASES AND ANOMALIES

Green led on		Power on	Device energised
Yellow led on		Pump on	Pump running
Red led on		Failure	Water shortage
Button		Restart	Reset after failure

INSTALLATION AND START UP

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.

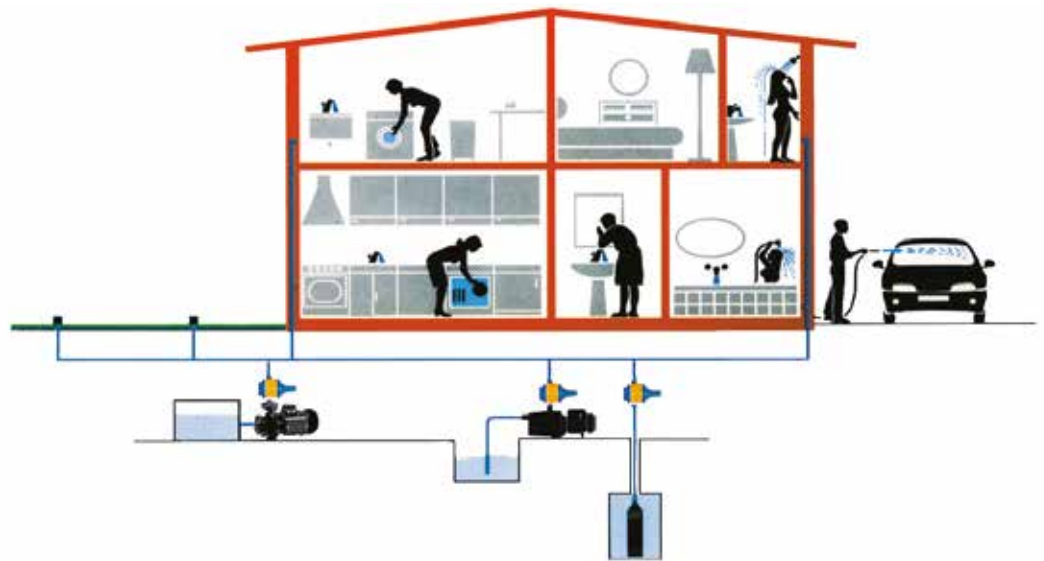
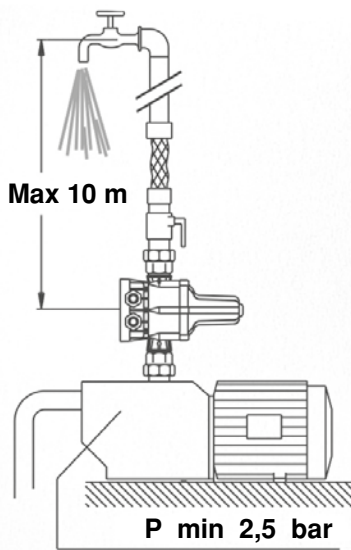
The green "Power on" led will light up on the control panel and the pump will start (yellow "Pump on" led on) and will keep running for several seconds to start up the system. If this time is insufficient, the device will stop the pump (red "Failure" led on). Keep the Restart button pushed in until the red Failure led turns off and the water comes out of the opened tap.

When the tap is closed the pump will stop after a few seconds (yellow "Pump on" led turns off).

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 against dry running (red "Failure" led on).

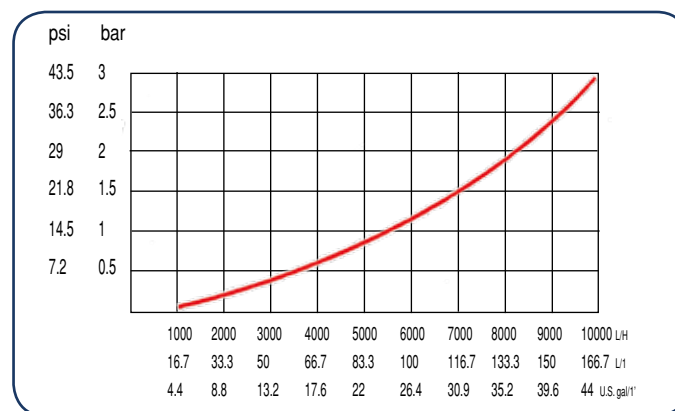
In case of a temporary blackout, the device will automatically rearm once the electricity returns.



MONDIALPRESS has the cut-in pressure value of 1,2 bar.

- The maximum pressure generated by the pump has to be at least 2,5 bar.
- The water column from the MONDIALPRESS and the highest tap does not have to be higher than 10 meters.
- It must be installed in a vertical position.

PRESSURE FLOW CHART



ACCESSORIES AND VARIANCES

On request the device can be supplied with:

- Wired electric cables.
- Cut-in pressure values different from the standard (1,2 bar).

PRESSFLOW



ELECTRONIC FLOWSWITCH

Can be energised 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 against dry running.
Maintenance free.**

TECHNICAL FEATURES

Single-phase mains voltage	115/230 Vac
Acceptable voltage fluctuation	+/- 10%
Frequency	50-60 Hz
Maximum Current	8 A
Maximum Power	0,55 kW (0,75 HP) at 115V - 1,1 kW (1,5 HP) at 230V
Protection degree	IP65
Maximum operating pressure	12 bar (1,2 MPa)
Maximum operating temperature	65°C
Minimum flow	~0,5 l/min
Male connectors	Gc 1"
Certified by	TÜV SÜD

CONTROL PANEL

SIGNALING OF THE WORKING PHASES AND ANOMALIES

Green led on		Power on	Device energised
Yellow led on		Pump on	Pump running
Button		Restart	Reset after failure

INSTALLATION AND START UP

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

The device must be installed in a vertical position.

In order to operate, the flowswitch 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 underneath 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.

This device can also be used for direct withdrawal from the water mains (Fig. 3).

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

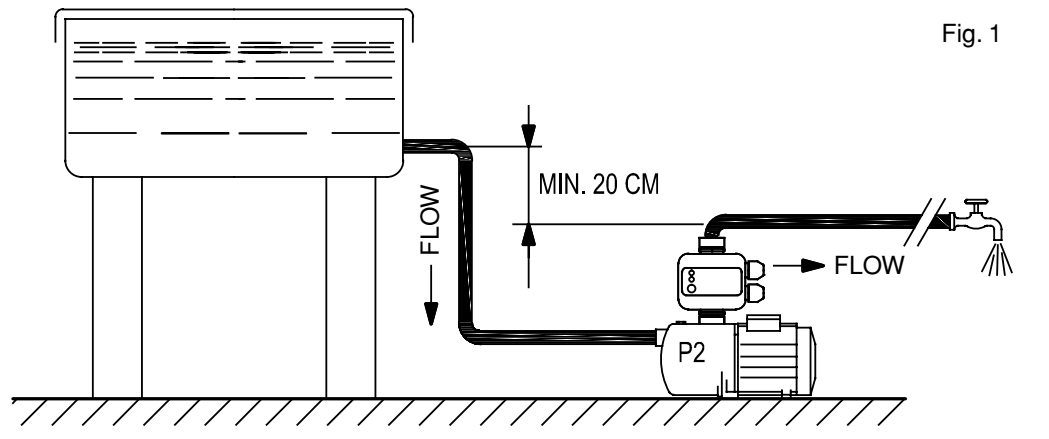


Fig. 1

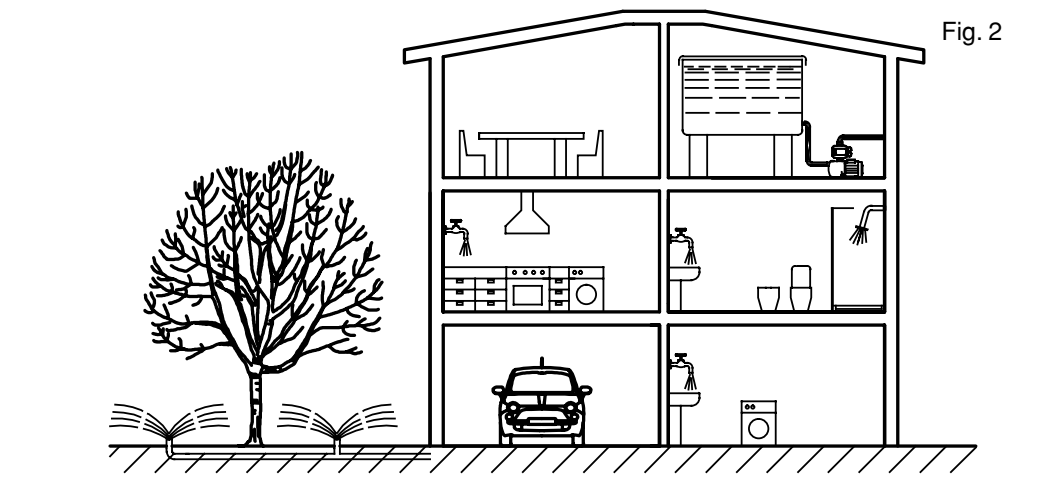


Fig. 2

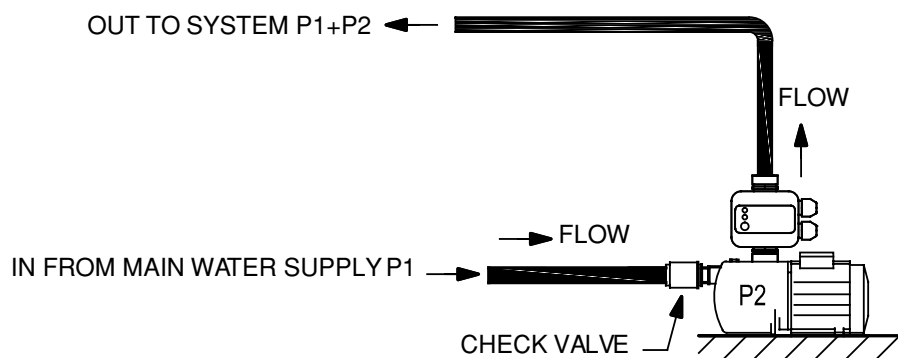


Fig. 3

ACCESSORIES AND VARIANCES

On request the device can be supplied with:

- Wired electric cables.

PUMPSTOP

PUMPSTOP *Up*



ELECTRONIC PUMP SAVER





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

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

TECHNICAL FEATURES	PUMPSTOP	PUMPSTOP UP
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
Certified	TÜV SÜD	TÜV SÜD

Pumpstop Up it is the “refined” version of Pumpstop that allows to manage pumps up to 10 A.

CONTROL PANEL

Green led on		Power on	Device energised
Yellow led on		Pump on	Pump running
Red led $\left\{ \begin{array}{l} \text{blinking} \\ \text{on} \end{array} \right.$		Failure	$\left\{ \begin{array}{l} \text{Water shortage} \\ \text{Overcurrent} \end{array} \right.$
Button		Restart	$\left\{ \begin{array}{l} \text{Motor data acquisition} \\ \text{Reset after failure} \end{array} \right.$

INSTALLATION AND START UP

In order to operate, the electrical power supply of the pump must be connected to the main power supply. For this reason the power supply plug of the pump must be inserted in the socket of the device which is then connected to the power point (Fig. 1).

In case of a water shortage on suction, the device will stop the pump and protect it against dry running.

This malfunctioning is indicated with the red "Failure" Led blinking.

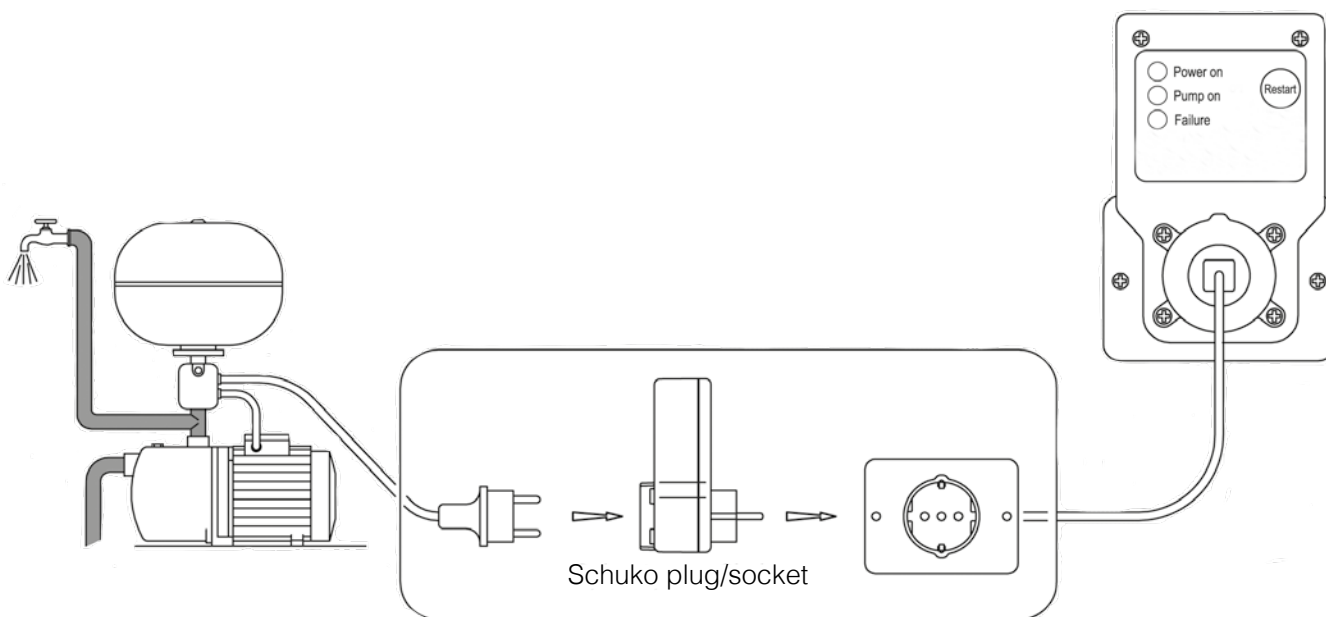
In case of the current absorption exceeding 8 amperes (or 10 amperes for Pumpstop *Up* version), the device will stop the pump motor and protect it against over-current.

This malfunctioning 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.

Fig. 1



VARIANCES

On request the device can be supplied with:

- Australian plug/socket.