



MASCONTROL



ELECTRONIC 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.

TECHNICAL FEATURES

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

CONTROL PANEL

SIGNALING OF THE WORKING PHASES AND ANOMALIES

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



CE
Made in Italy

INSTALLATION AND STARTUP

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

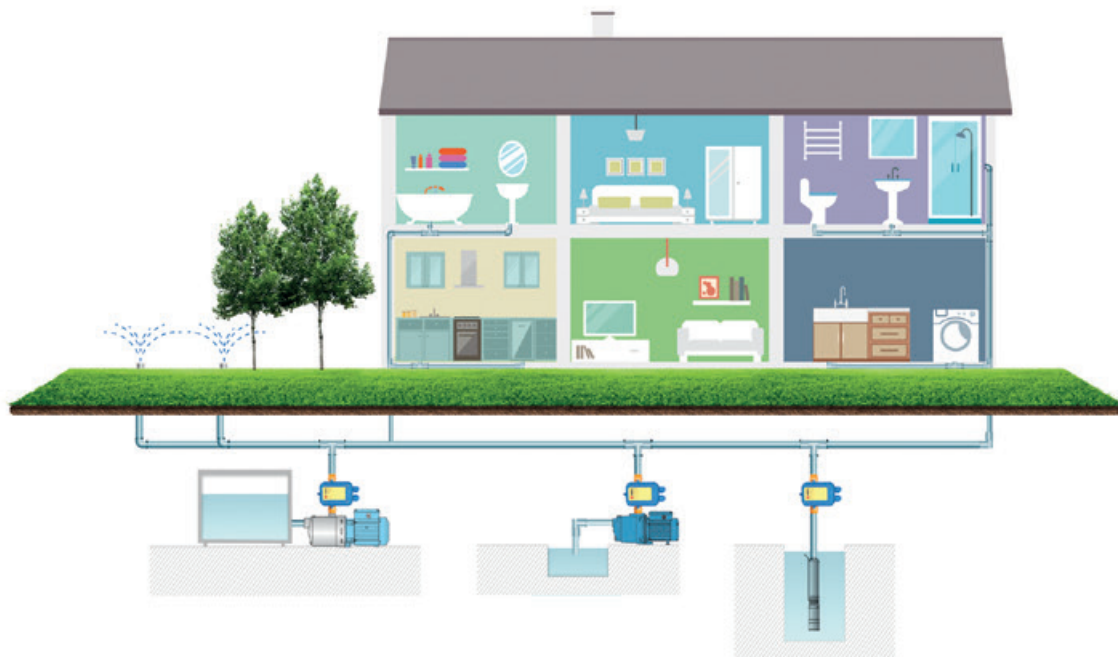
Make all the electrical connections, check that the pump is correctly primed, open a tap and energize.

The green led Power on 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 pressurize the system. If this time is insufficient, the device will stop the pump (red "Failure" led blinking). Press and hold down the Restart button until the red Failure led turns off and the water comes out of the open 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 it from dry running (red "Failure" led blinking).

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



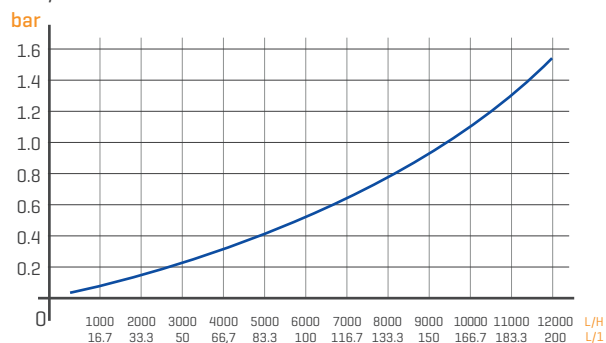
SELECTION OF THE DEVICE WITH APPROPRIATE RESTART VALUE

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

Standard restart value: 1,5 bar.

The restart values indicated in the table are available on request.

PRESSURE LOSS DIAGRAM
1"1/4 VERSION



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.

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.

OPTIONAL

On request, the device can be supplied with:

- Version with Gc 1" male connections.
- Wired electrical cables.
- R version with adjustable restart value between 1,5 and 3 bar.
- RM version with adjustable restart value between 1,5 and 3 bar and a pressure gauge.