


Made in Italy

**PATENTED**

# LOGICONTROL *3PHASE*

## THREE-PHASE PRESSURE FLOW SWITCH WITH ADJUSTABLE WORKING PRESSURE

Three-phase power supply 400 Vac.

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

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 water shortage and protects it from dry running.

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

| | 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 4x1,5 $mm^2$ | H07RN-F 4x1,5 $mm^2$ |

## CONTROL PANEL

### SIGNALING OF THE WORKING PHASES AND ANOMALIES

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

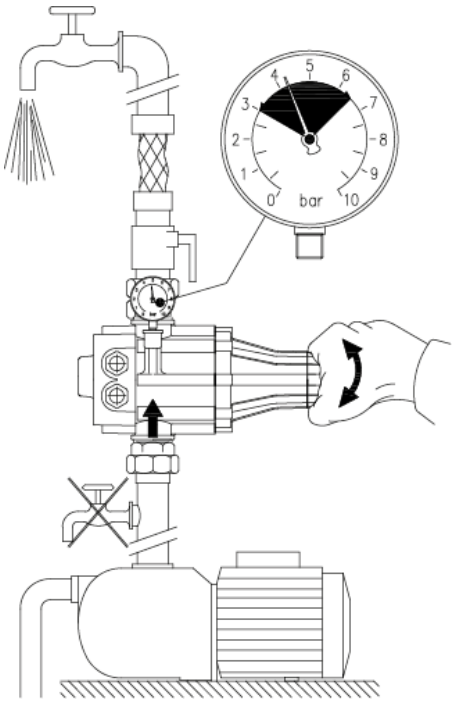
## INSTALLATION AND STARTUP

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

Make all the electrical connections and energize.

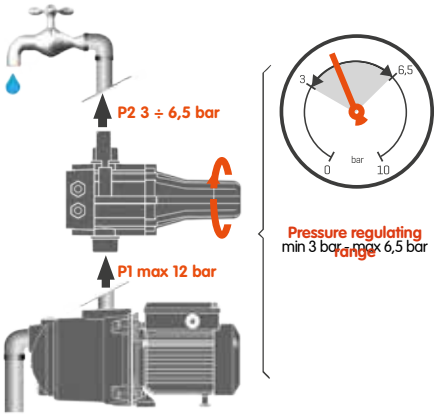
From now on, the device will turn the pump on and off depending on the opening and closing of the tap.

In case of 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.

# LOGICONTROL *3PHASE PLUS*

It differs from LOGICONTROL 3PHASE for the presence of electrical protections for the motor.
It can be powered with either 230 or 400 V three-phase voltage.

## 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.