



Patent Pending



ELECTRONIC 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 connectors to guarantee a higher flow rate.

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

Three-phase mains voltage	400 Vac	Protection degree	IP 65
Three-phase pump motor voltage	400 V Y	Maximum operating pressure	max 12 bar
Acceptable voltage fluctuation	+/- 10%	Maximum operating temperature	max 65 °C
Frequency	50-60 Hz	Minimum flow	~ 1 l/min
Maximum Current	6 A	Male connections	Gc 1" 1/4 or 1"
Maximum Power	2,2 kW (3 HP)	Standard equipped cables	H07RN-F 4x1,5 mm ²

CONTROL PANEL

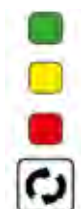
SIGNALING OF THE WORKING PHASES AND ANOMALIES

Green led on

Yellow led on

Red led blinking

Button



Power on

Pump on

Failure

Restart

Device energized

Pump running

Water shortage

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.

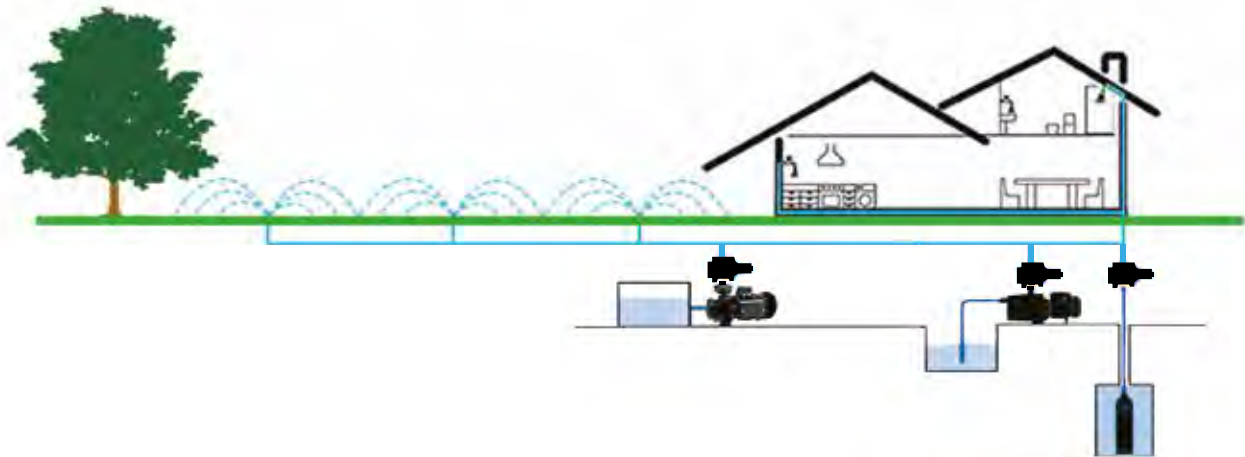
The green "Power on" led will light up on the control panel and the pump will start (yellow "Pump on" led on) and will keep running for several seconds to start up the system. If this time is insufficient, the device will stop the pump (red "Failure" led blinking). Keep the Restart button pushed in until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

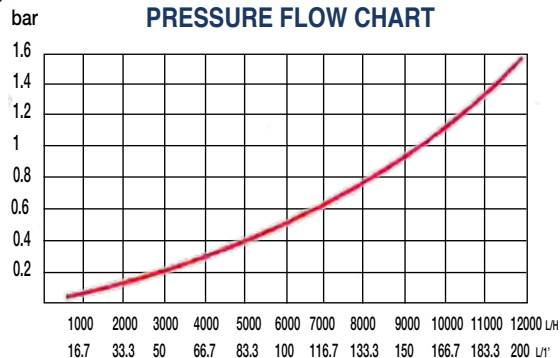
In case of water shortage the device will stop the pump and protect against dry running (red "Failure" led blinking).

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



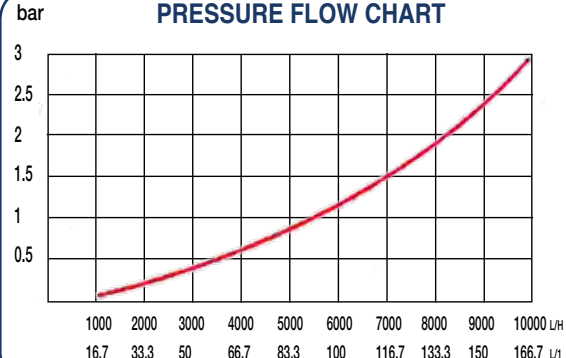
1" 1/4 STANDARD VERSION

PRESSURE FLOW CHART



1" VERSION ON REQUEST

PRESSURE FLOW CHART



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.

ACCESSORIES AND VARIANCES

On request the device can be supplied with:

- Gc1" male connections.
- Cut-in pressure values 1, 2, 2.2, 3 or 4 bar different from the standard (1,5 bar).