

AGRÓNIC

filtros



INTRODUCTION

Controller for automatic cleaning of filter sets with different start and working possibilities.

There are 3 models depending on the number of filters: 6, 12 and 18 filters. Models for 6 and 12 filters can be extended whenever desired to 18 by returning them back to the factory.

Filter cleaning can be started:

- By "pressure drop": activating whenever the controller receives a signal from a differential pressure gauge which controls the pressure drop between the filter input and output as a result of accumulated dirt.
- By "volume": activated after a programmed volume of water has been filtered. In this case, the controller must receive signals from a volumetric impulse transmitter.
- By "working time": activated after a programmed time of water circulation through the filters (for which the controller needs to receive the corresponding external signal).
- By a combination of "pressure drop" with "filtered volume" or "working time", which guarantees a minimum periodic cleaning, if this is not necessary earlier due to an unexpected accumulation of dirt.

WORKING

Once the cleaning order has been detected, the different connected filters will be activated sequentially (one after the other) by the controller. The duration of the cleaning of every filter can be programmed independently.

There is a timing which affects all filters equally: the pause between filters. This timing is important to recover pressures in the net and avoid overlapping in the hydraulic valves.

Both a cleaning sequence and the outputs can be started or stopped manually with the unit. The unit can also be set at stop (deactivated).

PROGRAMMING AND CONSULTATION

The user can easily program all the parameter and timing values of the controller.

The unit shows the state of the unit at all times, indicating the filter that is working, whether it is working, the state of the inputs and whether there is any output which has been activated in a manual way as well as showing whether the controller is at Stop. It also informs about the circulating instantaneous flow and about the volume and time units that have gone by since the last cleaning.

TOTALS

At the Totals function, the unit shows the number of cleanings that have taken place due to a "drop in pressure" and "volume" or "time". The total water volume which has circulated through the filters, or the time it has been working, since the last time it was set at zero are also indicated.

INPUTS AND OUTPUTS

The unit has the following inputs:

- For the differential pressure gauge which detects the drop in pressure in the filters, (necessary for the starts by "drop of pressure")
- For the detection of water flow through the filters with a signal that comes from a programmer, calliper, etc., (necessary for the starts "by time" and for the total of hours that the filter installation has been working)

- For the volumetric impulse transmitter, (necessary for the starts by “volume”, information about the instantaneous flow and volume total of filtered water)
- For the detection of breakdowns in the installation.
- For different options.

A timing for detection delay can be assigned to the inputs, in order to avoid inadequate signals.

There can be three types of output: at 24 Vac, at 12 Vdc and at 12 Vdc for latch valves (with two or three wires) with low consume.

MODELS AND OPTIONS

- Models for 6, 12, 18 outputs.
- 220 Vac power supply version and 24 Vac outputs, incorporating a 2A transformer.
- 12 Vdc power supply version and 12 Vdc outputs.
- Option with outputs for latch valves (with two or three wires) and low consume. Due to the fact that this version has a low consume of the unit and its electro valves, it is very suitable for those installations which work with a battery and which do not have a diesel engine or a solar cells to recharge it.
- Version with the equipment provided in a box with transparent cover.
- Version with the equipment prepared to build-in a cupboard or a desk.
- Version for filters with cleaning and rinse. It can have 2, 4 or 6 filters. Every filter uses three relays to control the 5 necessary hydraulic valves. The programmer will ask for every filter the cleaning and rinsing time.

WARRANTY

Agrónic Filtros is compliant with all the norms defined by the CE.

The products created by Progres enjoy a 2 year warranty against all manufacturing defects.