

Theory of Operation

ZuVo pruator is a water treatment system which is able to alert user to change the water filter when the accumulated amount of water running through the system reach its rated limit.

The system contain a flow sensor which is able to record how much water running through the system. When the accumulated amount of water running through the system reach the rate volume of the filter, the system will turn On a buzzer / LEDs.

When the unit is Power ON, the MCU will turn ON the RFID reader to read the ID on the Filter.

If the ID is different from the previous power ON ID, means a New filter is detected, The system will reset the accumulated water flow counter to Zero.

If the ID is same as the previous Power ON ID, means filter is no change, The system will continues use the previous water flow counter value.

By using the unique RFID tag Filter, the system is able to detect if a new filter is installed into the system.

The system has TWO series,

Series 3xx -

Series 1xx –

The different between series 3xx and 1xx is 3xx has LED and 1xx does not have LED, All the PCBs in series 3xx and 1xx are same.

Both Series 3xx and 1xx will have different color on the mechanical part