



# SM203 WASTE WATER PUMP CONTROLLER INFORMATION BRIEF

Release 1.4 FEBRUARY 2010

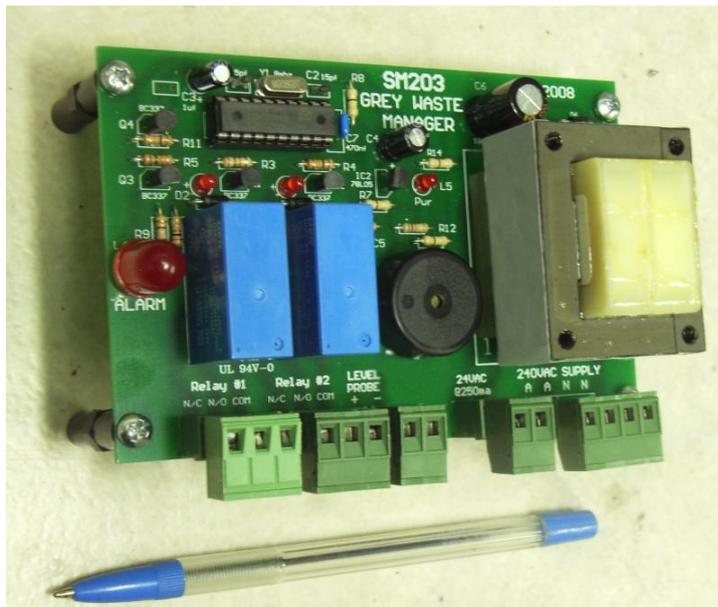
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AS3100 ACREDITED  
CS03057V



## GENERAL DESCRIPTION:

The SM203 Pump Controller is a basic module-only unit suitable for incorporating within a larger system. It supports a single 240VAC pump to 1000 Watts (Via Relay 1), A 24V spray solenoid (Via Relay 2) and a single conductivity probe (or float switch sensor) for input control.

When the level in the tank or sump rises to the point where it activates the level probe, it waits 4 seconds then activates Relay 1 to implement the pump.

When the level probe goes Dry, because of the falling water level, it continues to operate the pump for an additional 25 seconds, then the pump is turned off.

## AUTOMATIC PURGE FEATURE

A 24v Spray solenoid may be connected to the system to automatically enable the washdown of the sump or tank area with clean water 6 hours after a successful pump cycle. When the spray cycle is complete, an additional 30 second Drain cycle pf the pump is engaged for a further 30 seconds.

- Every the pump activates through a level probe trigger event, the Automatic Washdown Timer gets boosted back to the maximum delay (6 hours)
- If there has been no other pump activity for 6 hours, the PURGE cycle will take place. This cycle will operate Relay 1 for the pump for 30 seconds and stop. Then Relay 2 will operate for 30 seconds and stop. (Relay 2 can be used to activate the solenoid spray)

Then the Relay 1 will operate for another 30 seconds and stop. (This will drain away the dirty washdown water)

- During this entire (90 second) PURGE period, the red ALARM led will flash rapidly to let the operator know that this is an automatic process, rather than the SM203 responding to just water levels.
- Also during this PURGE period, the conductivity probes are ignored otherwise the PURGE water may activate a normal drain cycle.
- After this PURGE event, everything will remain dormant until more moisture is detected by the probes at some time in the future.

### EXTRA 'FAST FORWARD' FEATURE

The SM203 module has a little removable link on the board labelled LK1. With this link IN, everything is normal. With this link OUT, the 6 hour PURGE delay is reduced down to 36 seconds for demonstration and testing purposes.

### TYPICAL WIRING DIAGRAM

