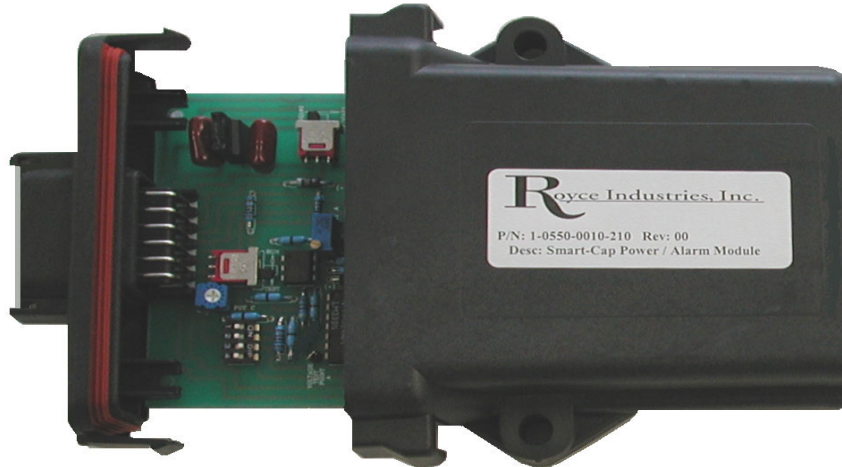


This Patented alarm system takes the guess work out of the re-Fueling process. It gives the boater a tool to help fill the fuel tank to a predetermined level without overflowing that tank and spilling fuel onto the deck or into the water.



The Larger boats and yachts have multiple holding tanks on board to hold fuel, potable water, and waste water. These tanks are not easily accessible and require liquid level measuring devices called (sending units) to remotely monitor their levels. Royce has created a group of components that can be installed by the boat manufacturer or end-user as a turnkey system. These components are as follows:

1. Liquid Level sending units utilizing Flexi-Sensor Technology.
2. Tank fill caps retrofitted with Smart Cap technology.
3. High-Level Alarm and Power Module.
4. Royce fuel and water gauges that are electrically matched to the sending units.
5. Calibrated sending units for custom tanks.

Additional Features:

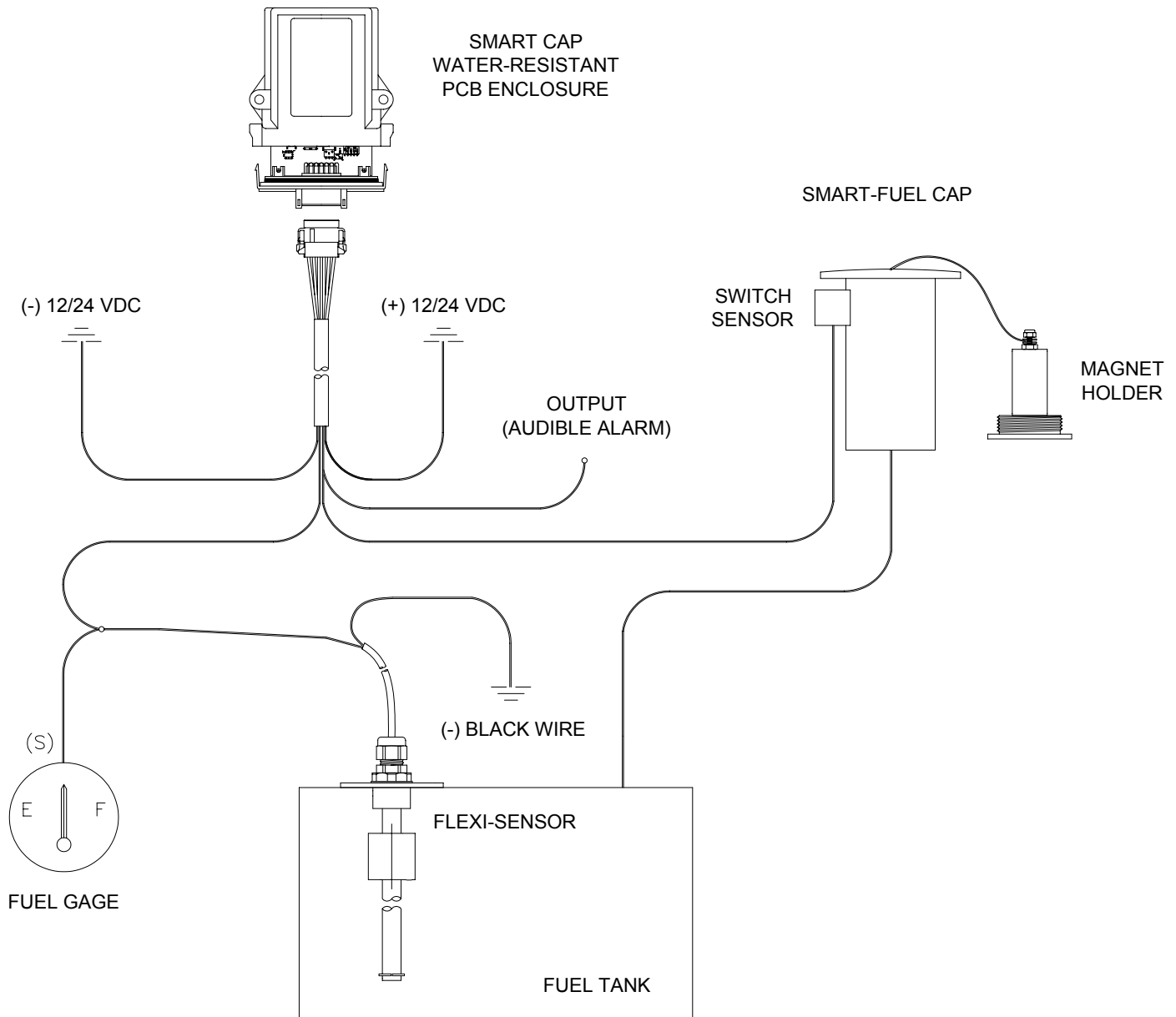
The alarm can be programmed using the dipswitches mounted on the power module PC Board. The unit can be configured to operate under the following conditions:

- Input voltage - 12 or 24 vdc
- Fuel gauges - On or Off during the re-fueling process
- Gauge types - All standard resistive and voltage type senders and gauges.

Multiple Fuel tanks

The alarm can be wired to activate when the transfer pump is energized to transfer fuel from an auxiliary tank to the main tank. The alarm will sound when the main tank is full to alert the operator to shut off the transfer pump prior to pumping fuel overboard from the vent line.

(See Page 2 for Operation and installation diagram)



Easy of Use:

- 1) A sensor in the fuel cap arms the system when the cap is removed for re-fueling.
- 2) The system monitors the fuel sender and gauge during re-fueling.
- 3) The boat operator can adjust the set-point for the audible alarm to a fuel level of 70% - 100% of a full tank.
- 4) An alarm or dashboard light will be activated when the high-level set-point is reached. (When properly adjusted the fuel tank can be filled to its maximum level without spilling fuel from the vent or the fill nozzle.)
- 5) The system and audible alarm is deactivated when the fuel cap is replaced after re-fueling.