# Additional Applications

## Pilot House-Navigation Battery

In larger vessels and commercial applications it is desirable to have a reserve battery in the pilothouse for navigation and communications gear. The Coast Guard has found that vessels may lose communications at a critical point of flooding of the engine room which causes a loss of power.

To use the CL-Series BatteryLink™ ACR to charge the pilot house battery, follow the diagram below. Place the CL-Series BatteryLink™ ACR in the pilot house along with the communications battery and use the remote sensing line from terminal 1 to allow the CL-Series BatteryLink™ ACR to sense charge availability. The sensing circuit becomes independent of voltage drop in the charging wiring and will maintain the charge of the communications battery automatically.

In the event of flooding of the lower levels, the CL-Series BatteryLink™ ACR will isolate the communications battery and prevent discharge by anything but the intended critical loads.

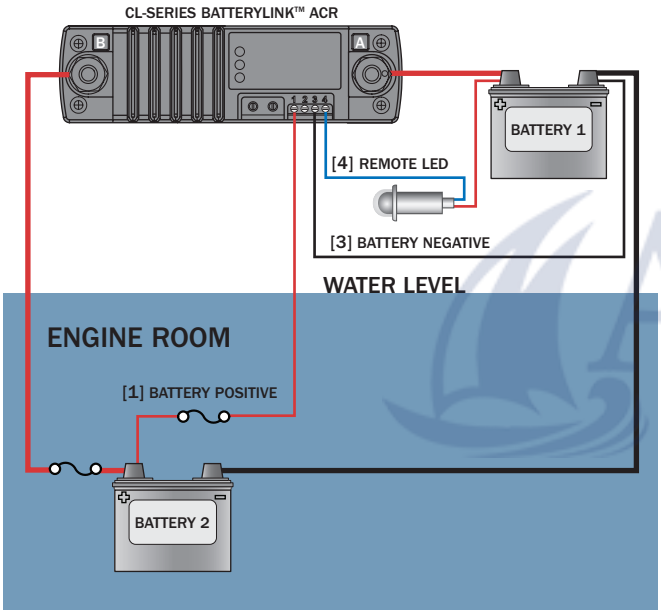
## Load Control

The voltage sensing and logic that determines when a charge sourced is present to share charging can also be used to control discretionary loads to protect batteries from excessive discharge. The drop out voltage can be selected from 11.5 Volts to 13 Volts to allow varying degrees of discharge before the load is disconnected. When using the BatteryLink™ ACR for load control, connect the battery source to main terminal A. Leave terminal 1 open or connect it back to terminal A to keep the undervoltage lockout feature from interfering.

Discretionary loads such as audio and entertainment equipment and refrigeration can be connected through the BatteryLink™ ACR. When the battery is discharged to a preset point, the BatteryLink™ ACR will disconnect the load and not re-close until the voltage recovers by about 6%.

ABYC and the Coast Guard recommend against using automatic reset circuit protection in load circuits because faults may not be noticed and repaired. To comply with this requirement provide appropriate fuse or circuit breaker protection for the wire size and load requirement.

### PILOT HOUSE APPLICATION




### LOAD CONTROL APPLICATION