

# MULTIRACK™

## Loading Rack Controller

Models 688-S / 688-D



The MULTIRACK™ 688 Controller for optic or thermistor style loading racks provides safe overfill control in loading applications for crude oil, condensate, or chemicals. MULTIRACK™ Controllers work in conjunction with the SEELEVEL™ tank truck gauge systems with single and dual options available. The 688 has over 20 years of proven reliability in the industry.

### 688 Features

- Provides overfill protection for both PTO pump loading and rack controlled loading.
- Housed in a durable, weatherproof enclosure will withstand the vibration, shock, moisture, and temperature extremes encountered in transport applications.
- Diagnostic LEDs provide visual indication of rack plug condition and permit status
- Operation from -40 °C to +60 °C (-40 °F to +140 °F) ambient temperature

### MULTIRACK™ Benefits

#### Cost Effective

The MULTIRACK™ is an additional system assists the operator to prevent overfill spill clean up, equipment and property damage, legal consequences that can cost high enough to seriously inhibit the profits of a trucking company.

#### Increases Flexibility

Provides unparalleled loading flexibility for a range of products such as crude oil, condensate, or chemicals without any changes to the system.

#### Proven Reliability

Proven SEELEVEL™ reliability eliminates probe problems in unrefined products.

#### Increases Safety

Intrinsically safe, the fiber optic connection between the SEELEVEL™ gauge and the MULTIRACK™ provides total electrical safety. Combine with the SPILLSTOP™ to ensure additional spill prevention.

#### Easy to Install and Operate

Easy installation and servicing, uses standard rack plugs. The MULTIRACK™ does not require any 12 V truck power to operate; it functions entirely on battery and rack power.

#### Service and Warranty

Our professional and knowledgeable technicians are on-call to assist you with any problems you may encounter. Products offer a three-year limited warranty.

**For more information about our product visit our website.**

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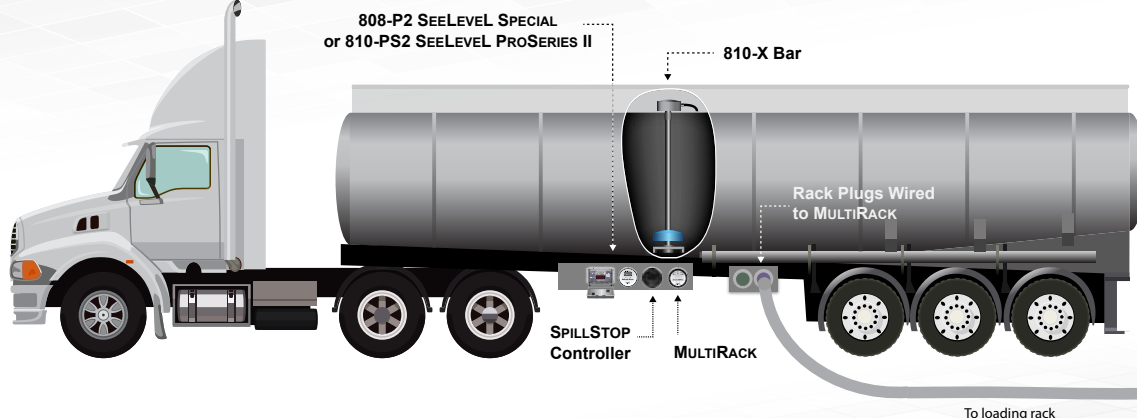
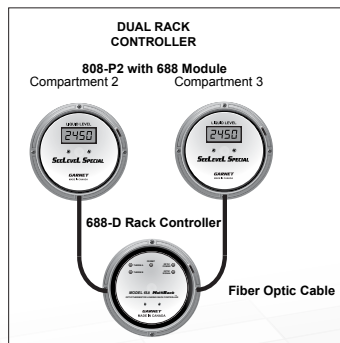
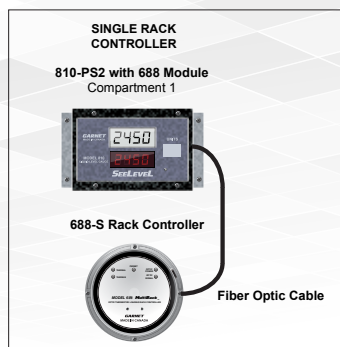
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## Principle Operation

The MULTIRACK™ works in conjunction with the 808-P2 and 810-PS2 gauges to shut down the loading rack when the product level reaches the programmed shutdown point in the SEELEVEL™ gauge.

The OPTIC diagnostic LED indicates proper connection to the optic rack, it will illuminate whenever the ground and red power wires are connected, regardless of whether the controller is in permit or not. The OPTIC LED does not indicate whether the yellow or orange pulse leads are connected.

The THERM A and THERM B diagnostic LEDs indicate proper connection to the thermistor rack, regardless of whether the controller is in permit or not. If only one of the thermistor leads is used, then only its corresponding LED will illuminate.

The PERMIT diagnostic LED will light when the controller is in permit and is connected to either an optic or thermistor rack. It will not illuminate if the controller is not connected, since the rack is the controller power source.

## Specifications

Temperature range:	-40°C to +60°C (-40°F to +140°F) ambient
Display material:	Enclosure: PBT plastic Lid: polycarbonate.
Display size:	152 mm (6") diameter, 67 mm (2 5/8") deep.
Display Type:	LED lights
External power:	Rack power
Battery power:	Powered by a lithium battery with a life-time of approximately 10 years