

# SEELEVEL SPECIAL™

## Model 808P2 Truck Gauge



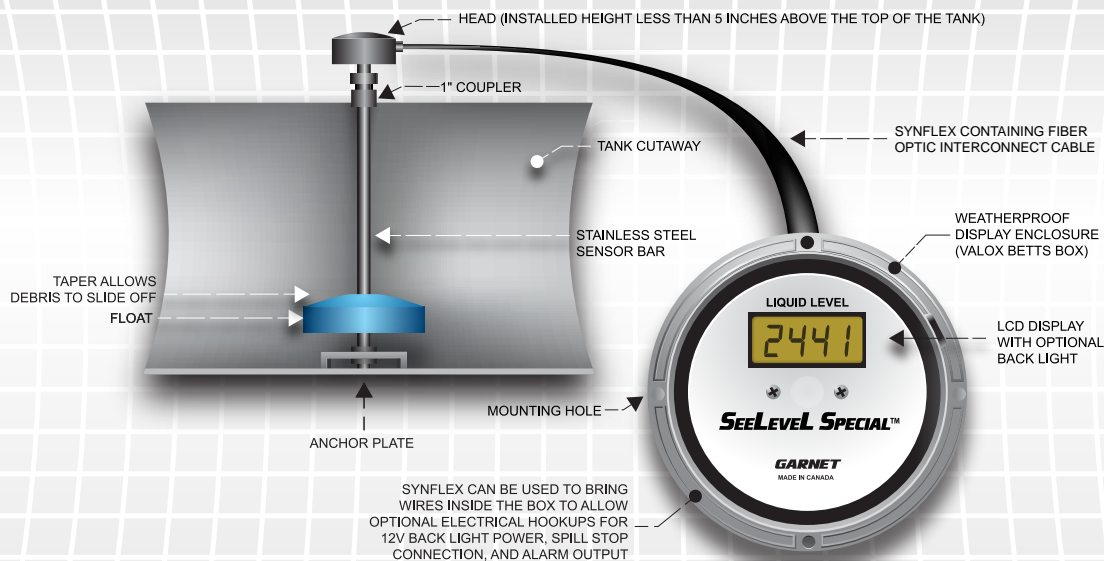
### FEATURES:

- Provides an accurate digital readout of the amount of fluid in a truck or trailer tank
- Microprocessor-based technology provides a resolution of 1/3"
- Readout provided on a daytime viewable LCD display suitable for inside or outside mounting with a back light for night viewing
- Programmable output to operate a **SPILLSTOP™** overfill prevention system, and a programmable alarm output which can operate a light, horn, isolation valve, or the **MULTIRACK™** optic/thermistor rack controller
- Additional built-in overfill warning alarm can activate a horn or light with the ability to bypass with side mounted push button
- Remote display ready; can transmit reading from main display to in-cab or outside remote display
- The display is calibrated with the 817 programmer to read in inches of level, or in volume units such as barrels, gallons, liters, or cubic meters
- Display has volume density compensation adjustable by the operator
- High reliability - no moving parts except for the molded plastic float. Stainless steel float option available
- Micro power circuitry runs on internal batteries - no truck power is required
- All-digital design eliminates reading drift or degradation, ensuring long term accuracy under all operating conditions
- Fiber optic connection between tank and display for complete electrical safety
- Operation from -40 °C to +60 °C (-40 °F to +140 °F) ambient, up to +85 °C (+185 °F) product temperature
- Easy installation and servicing, one year limited warranty

# GARNET

LIQUID MANAGEMENT SOLUTIONS

# Model 808P2 *SEELEVEL SPECIAL* Truck Gauge Description



- The gauge operates using a magnetic reed switch sensor bar detecting the float magnetic field. The system provides a stable resolution of 1/3" and the fixed position of the reeds eliminates any need for recalibration during the life of the gauge.
- When the float is rising, the gauge will read about 1/16" lower than when the float is falling. This happens because the reed switches are less sensitive to engagement than they are to disengagement. The practical result of this is that the gauge reading is very stable and does not flicker with small ripples on the surface of the product.
- A 316 stainless steel seamless tube houses the sensor bar, and the fitting holding the tube in place can be either steel or stainless steel. The tube and polyethylene float are resistant to oils, fuels, acids, sewage, and most chemicals. The sensor bar is fully sealed to prevent moisture or product from damaging the bar. The bar can be ordered to fit any size tank up to 85" in height, and can be easily removed for servicing, or for use on another trailer.
- The circuitry in the sensor bar is powered by a lithium battery with a lifetime of approximately 10 years.
- Plastic fiber optic cable transports the information from the sensor bar to the display to provide complete electrical isolation for the components inside the tank. The fibre optic light level is ten times higher than required, so the fibre can be cut with a knife for easy installation; no polishing or special preparation is required.
- The 808P2 display is powered by a lithium battery with a 10 year life. The LCD is large enough to allow display viewing from up to 15 feet away. For easy night viewing, the 808P2 has a light behind the LCD which is powered by 12V truck power. The display is built into a Valox Betts enclosure, which is weatherproof and able to resist indirect road spray.
- The gauge calibration is programmed during installation with the 817 programmer. The calibration can be done in inches of level, or in any volume unit desired, as long as a calibration table (volume vs. depth) is available for the tank. The display has four digits, allowing better than 1/4% accuracy on the readout.
- The SpillStop and alarm outputs on the 808P2 are programmed with the 817 programmer during installation, and can be altered at a later date if desired. An overfill warning feature permits a simple alarm to be operated and then bypassed by pressing a switch on the outside of the display enclosure. The alarm will automatically reset when the tank is empty.
- The SeeLevel gauge can be used with other Garnet products to improve safety, economy, and convenience. The SpillStop overfill prevention system provides an automatic horn warning and pump shut down to prevent spills when loading with truck mounted PTO driven pumps or trailer mounting hydraulic pumps. The MultiRack rack controller provides optic and thermistor loading rack control to permit loading at rack controlled facilities. Three different remote displays are available which can duplicate the gauge reading in the cab or on the other side of the trailer. The 828 allows the gauge reading to be transmitted through a remote telemetry.
- 20 years of service history and thousands in service in a large range of applications.

# Available Options

## Model 815



- Provides automated control of PTO pumps for spill prevention
- Modular design monitors up to two compartments with independent compartment controls
- Interconnect plug is monitored to detect faults and disconnection
- Easily interfaced with the 808P2 or 810PS2 systems
- Inside cab mounted only

## Model 828



- Connect up to six model 808P2/810PS2 SEELEVEL™ truck gauges to a standard RS232 serial connection for remote monitoring
- Uses the Power Take Off (PTO) sense line to determine when data is valid which prevents readings from being transmitted while the truck is driving
- Can be used as an in-cab remote display for up to six model 808P2/810PS2 SEELEVEL™ truck gauges
- Can be connected to a printer for receipt printing with tank levels, date and time

## Model 815U



- Provides automated control of PTO driven pumps or trailer mounted hydraulic pumps for spill prevention
- Single compartment monitoring only
- Designed for both body trucks and tractor trailer units
- Inside or outside mounting
- Wiring is monitored to detect faults

## Model 807ICE



- Remote in-cab display for 808P2 or 810PS2 systems
- Duplicates outside gauge reading in the cab for operator convenience
- 12 volt truck powered display with a bright LED readout
- Push button selects day or night LED brightness level
- Compact edge view enclosure optimized for top of dash or overhead console mounting

## Model 815UD



- Provides automated control of PTO driven pumps or trailer mounted hydraulic pumps for spill prevention
- Dual compartment monitoring
- Designed for both body trucks and tractor trailer units
- Inside or outside mounting
- Wiring is monitored to detect faults

## Model 807ICM



- Remote in-cab display for 808P2 or 810PS2 systems
- Duplicates outside gauge reading in the cab for operator convenience
- 12 volt truck powered display with a bright LED readout
- Push button selects day or night LED brightness level
- Miniature enclosure optimized for dash front mounting

## Model 815UHP



Available 2nd quarter

- All of the benefits of the 815U with added features:
- Belly valve position input improves protection against blown hoses
  - PTO status input provides additional visual feedback to operator
  - These inputs also minimize unnecessary horn activation for quiet operation in noise sensitive areas

## Model 807ORD



- Remote outside display for dual 808P2 or 810 PS2 systems
- Simultaneous dual readouts duplicate gauge readings on the other side of the trailer
- 12 volt truck powered display with a bright LED readout

## Model 688S / 688D



- Designed to control an optic or thermistor style loading rack
- Provides unparalleled loading flexibility for a range of products such as crude oil, condensate, or chemicals without any changes to the system
- Circuitry runs entirely on rack power – no truck power is required
- A fiber optic connection between the SEELEVEL™ gauge and MULTI-RACK™ provides electrical isolation.

## Model 808PSiRD



- 12 volt truck powered display with a bright LED readout
- Display can be turned off if desired
- 808PSiRD version available as a remote display for 808P2 or 810PS2 systems



## Model 817

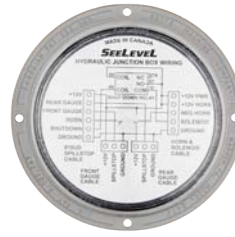
- The truck gauge programmer is required to program fluid volume calibrations and alarm points into the 808P2 and 810PS2 truck gauge displays
- The calibration and alarm can be entered into the programmer with the keypad or downloaded from a PC
- This data can be stored in the programmer memory or in PC files
- Optical input and output connections allow the programmer to test sender bars and displays to assist in installation and troubleshooting

## Items Available To Assist Installation, Speed and Durability



### Model 815JB

- Single compartment application
- Optimized for in-cab use for engine shut down
- Simplifies wiring to reduce cost and increase reliability
- Field replaceable relays simplifies servicing



### Model 815JBHD

- Optimized for single or dual compartment hydraulic pump applications
- Simplifies wiring to reduce cost and increase reliability
- Field replaceable relays simplifies servicing



Float Support



316SS Stainless Float



Aluminum Bracket  
to mount SpillStop and  
Junction Boxes



Fiber Optic Cable



1/4" NPT Brass Fittings,  
1/4" NPT Brass T Fittings



Scully Cable  
5 wire, 7 wire



Murphy Pressure Switch  
R 50 PSI and R 75 PSI



Micro Switch



Loctite Kit  
680 compound,  
7471 Primer and Degreaser



Back-Up Alarm



1" NPT Collar  
Aluminum, Carbon Steel &  
Stainless 316SS



Relay

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