![OMNTEC logo] **OMNTEC** — Advanced Tank Monitoring & Leak Detection

# DELIVERY DEFENDER LITE
## OVERFILL PROTECTION ALARM SYSTEM

Delivery Defender Lite (DDL) is a universal remote overfill alarm for up to four tanks in a compact NEMA4X enclosure. This unit connects to the PROTEUS line of ATGs along with most industry standard tank gauging systems. The DDL provides convenient outside indicators, where fuel providers can easily observe current tank conditions, alarm status and system status. Equipped with high intensity sunlight visible LED indicators, high decibel horn and general alarm light, the DDL quickly indicates critical information to the filling operator.

**DELIVERY DEFENDER - LITE**
Overfill Protection Alarm

Tank 1   Tank 2   Tank 3   Tank 4

System Normal          Delivery in Progress

Acknowledge
(Hold to Test)

OMNTEC
Advanced Tank Monitoring & Leak Detection

## AN AUTOMATED COMMON SENSE APPROACH TO PREVENT OVERFILL EVENTS AND PRODUCT CROSS CONTAMINATION THAT MEETS EPA AND NFPA STANDARDS

## FEATURES

- Sunlight-visible LED indicators

- *Re-alarms upon attempt to refill if in a high-level state*

- *Connects to any industry standard ATG*

- *Tandem drop indication*

- Delivery-In-Progress indicator

- Dedicated high-level indicators per tank

- High level indicators flash to indicate tank being filled

- General alarm horn and light

- Wireless option available

- NEMA 4X

- Adjustable audible horn volume

- RS232/RS485 interface

- Stainless steal option available

## WORKING PRINCIPLES OF DDL

Upon arrival at a site, operations can immediately and easily view a high visibility green light, indicating the DDL is powered, functioning normally, and in communication with an ATG.

Best practices suggest a secondary confirmation of system integrity be performed by pressing the "Hold To Test" button for 5 seconds. If all indicators activate, the high visibility lights and the audible alarm, while the "System Normal" light remains lit, the driver can confirm that the system is ready to safely receive product.
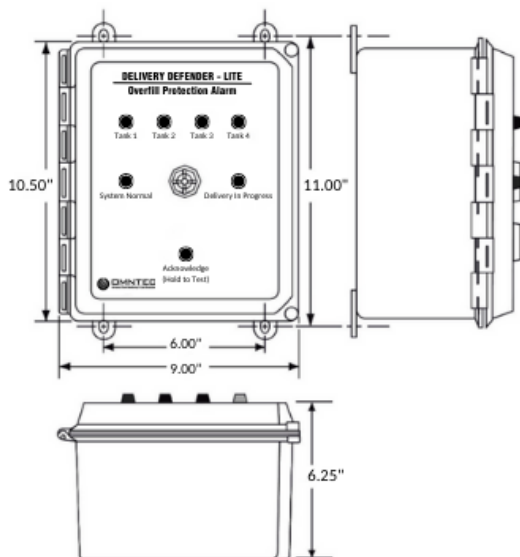
Once a delivery has begun, the DDL's "Delivery In Progress" amber light, along with the associated tank's high visibility red light, will begin to flash indicating which tanks are seeing an increase in levels. This function acts as a third level of confirmation that the system is operating properly and helps to advert product cross contamination.

When an overfill level is reached, the horn and light will sound and the tank lights will switch to continuously stay on. *Should a driver begin fueling a tank that is already in a high level state the DDL will respond by reactivating alarms indicating operations to cease issue of product.*

| SPECIFICATIONS | |
|---|---|
| Input Power | 100-240 VAC +/- 10% <br> 50/60 Hz 60 watts |
| Weight | 6 lb. |
| Dimensions | Enclosure: (W) 9"x (H) 10.5 (D) 6.25 <br> Mounting: (W) 6" x (H) 11 |
| Communications: | RS-232 or RS485 |
| Accessories: | WRS-232     Wireless RS-232 link, includes both tank gauge and remote transceivers <br> WRS-232R    Wireless RS-232 repeater for extending WRS-232 wireless reach <br> RD-232C-75   75 feet RS-232 cable <br> C232-485     RS-232 to RS-485 converter housed in a NEMA enclosure (at tank gauge side) for RS-485 connection to DDL |
| Approvals: | UL-508 Listed |

*Specifications subject to change without notice, verify with manufacturer.*

# Functions of the Delivery Defender Lite

| Functions | TANK 1 | TANK 2 | TANK 3 | TANK 4 | HORN | SYSTEM NORMAL | DELIVERY IN PROGRESS |
|---|---|---|---|---|---|---|---|
| Normal Condition | | | | | | 🟢 | |
| Acknowledge (Hold to Test) | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟢 | 🟠 |
| Receiving Delivery | 🔴 (flashing) | 🔴 (flashing) | 🔴 (flashing) | 🔴 (flashing) | | 🟢 | 🟠 (flashing) |
| High Level Alarm | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟢 | |
| Overfill Alarm (requires Delivery In Progress) | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟢 | |
| Communication Loss | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | | |

Green Light - Indicates power available with proper communications with the ATG.

Amber Light - Flashes during delivery in progress.

Red Tank Light - Flashes when a tank is receiving delivery, turns steady when tank has reached high level or overfill condition and remains illuminated until satisfied.

General Horn/Light - Activated upon high level, overfill, max height, probe time out or ATG communication failure. High and overfill alarm thresholds are received from and programmed at main ATG.

Self Test - Hold button for 5 seconds to test all lights, conditions, and audible horn.

Acknowledgeable Button - Acknowledges alarm conditions by deactivating general horn and alarm light.

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