

# **Nozzle Module Installation**

**Model: NZMOD-V3**

**Fleet Data Systems, LLC**

## **Federal Communication Commission (FCC) Notice**

This equipment generates and uses radio frequency energy. If not installed and used according to the manufacturer's instructions, this equipment may cause interference with radio/TV reception.

Per 47 CFR 15.19: This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

There is no guarantee that interference will not occur in a particular installation. If you suspect that this equipment is interfering with radio/TV reception, the following are possible remedies:

- Reorient or relocate the receive antenna
- Increase the distance between the equipment and the receiver.
- While observing the interference turn the suspect equipment off and back on. If the interference stops when the equipment is off and resumes when the equipment is on, the equipment is probably the source of the problem.
- Consult the dealer or an experienced radio/TV technician for additional advice.

Warning: Changes or modifications to this equipment that are not expressly approved by the party responsible for compliance could void the authority to operate this equipment.

Fleet Data Systems, LLC is not responsible for radio/TV interference caused by using unauthorized cable or by making unauthorized changes to this equipment.

## **1.0 Introduction**

This document provides information and instructions for the installation of Fuel Module of Handsfree Fueling System from Fleet Data Systems.

### **1.1 System Description**

The FDS Handsfree Fueling System utilizes state-of-art wireless technology to automate the Fuel Management System to track and authorize dispensing of fuel. The Handsfree System consists of a Fuel Island Base-station, a Fuel Module and a Nozzle Module.

### **1.2 Fleet Data System Handsfree Components**

There are two non-contact modules. One is mounted on the Vehicle near Fuel Inlet. This module is called Fuel Module. The other module is mounted on the Nozzle and it is called Nozzle module. Both modules are battery operated. The Fuel Module has a battery life expectancy of 7 years. The Nozzle Module has a battery life expectancy of two years.

The Vehicle Fuel Module can also incorporate the wake-up circuit in the module. The Pickup Coil has a distance of about 18 inches. This coil is a high sensitivity. This coil is a special design coil in order to provide the necessary distance.

Normally when the nozzle is in the On-Hook position, the Nozzle Module will be in the shutoff mode. When a user removes the nozzle and when he places the nozzle in the fuel inlet, the Nozzle Module wakes up the Fuel Module. The Nozzle Module will communicate to the Fuel Module by sending a short packet to the Fuel Module. Once the Fuel Module has received the packet, it will send the information to the Fuel Island Base-station. An authorization to the dispenser will subsequently follow.

## **2.0 Nozzle Module Installation**

1. Unpack unit and make sure there is no physical damage due to transport.
2. Place Nozzle Module inside Nozzle boot.

3. Slide Nozzle Boot on the Nozzle.
4. Place Nozzle in fuel-inlet. Pump should come on automatically.
5. Pump fuel. When fueling is complete. Hang up Nozzle.
6. Wait two minutes. Check FDS BackOffice Software. A transaction should be posted.
7. Installation is now complete.

### **3.0 Trouble Shooting**

FDS Nozzle Modules are manufactured with the highest quality components and are thoroughly tested before delivery to the customer. As with most electronic equipment, operating failures are normally caused by abnormal usage. There are no field replaceable parts in the Module.

To check if the Nozzle Module is functional, point the Nozzle Module within 12 inches from the Fuel Module, the GREEN LED should blink. If it does not, then the unit fails to be wake up. The Unit should be returned to FDS for repair.