

## INCON VRM 1.2.0 Upgrade Instructions for Multi-Hose Dispensers

### Overview

This document provides instruction for upgrading the INCON VRM software for Multi-Hose dispensers.

The instructions described below show screen shots from the console web pages. The procedures can be run on either the web pages or the local LCD on the console.

### Procedure

1. **Important!** Print out the following for the entire year:
  - ISD Daily Reports
  - ISD Monthly Reports
  - Alarm History Report

These reports may be needed for local regulators and the ISD data **will be lost** when the multi-hose setup is enabled.

**Note:** To save paper, generate the reports from the console web pages and print to a PDF file.

2. Upgrade the firmware in the console to the latest version (rev 1.2.0 or higher) using the released TSA Upgrade Tool.
3. Setup will need to be modified to change from Uni-hose configuration to Multi-hose configuration.

Group Name		Parameter Name	Parameter Value
System ID		...	...
System Configuration		...	...
AC Input Modules		...	...
Probe Modules		...	...
2-Wire Sensor Modules		...	...
3-Wire Sensor Modules		...	...
4-20mA Input Modules		...	...
Power Supply		...	...
Relay Modules		...	...
Dispenser Interface		...	...
Fuel Management System		...	...
Vapor Recovery Monitoring		Method Type	Balanced
		Hour Assessment	0
		Week Day Assessment	Sunday
Dispenser Configuration		Dispenser Type	Wayne
		Multihose Dispenser Site	Yes
		Number of Dispensers	4
Dispenser 1		First Fueling Point	1
		Second Fueling Point	2
		Flow Meter	disp 1/2 vfm
		Multihose	Yes
Dispenser 2		First Fueling Point	3
		Second Fueling Point	4
		Flow Meter	disp 3/4 vfm
		Multihose	Yes
Dispenser 3		...	...

Can set hour and day for assessment

Select and enable Multihose option

Hose positions need to be verified that they are mapped to the correct grades. This can be done easily by pumping at a little fuel on each grade and verifying it on the console. The following steps will guide you through the verification of the hose mapping.


4. Starting on Dispenser 1, block off both fueling points for testing.
5. Navigate to the VRM>Control page > Manual A/L. Notice you will now see each hose listed in the table.

Franklin Fueling Systems		VRM Control - A/L Test					Start Test	
Home System VRM Setup Preferences								12/14/2009 13:29:09
Status Alarms Control Reports								
Calibrate Pressure Sensor Manual A/L Test Clear Monitoring Download								
<input type="checkbox"/>	Fueling Point	Hose	Air	Liquid	Air/Liquid	Status	Date	
<input type="checkbox"/>	1	87 UNLEADED	2.56	2.01	1.27	Pass	09/21/2009 16:28:25	
<input type="checkbox"/>	1	89 MIDGRADE	4.69	4.51	1.03	Pass	08/10/2009 10:10:29	
<input type="checkbox"/>	1	91 SUPREME	4.52	4.52	1.00	Pass	08/10/2009 10:13:16	
<input type="checkbox"/>	2	87 UNLEADED	2.38	2.02	1.17	Pass	09/21/2009 11:39:28	
<input type="checkbox"/>	2	89 MIDGRADE	4.37	4.52	0.96	Pass	08/10/2009 10:20:20	
<input type="checkbox"/>	2	91 SUPREME	4.60	4.52	1.01	Pass	08/10/2009 10:23:50	
<input type="checkbox"/>	3	87 UNLEADED	2.12	2.01	1.05	Pass	09/21/2009 11:51:33	
<input type="checkbox"/>	3	89 MIDGRADE	4.79	4.57	1.04	Pass	08/18/2009 12:04:54	
<input type="checkbox"/>	3	91 SUPREME	3.88	4.04	0.96	Pass	11/27/2009 06:35:22	
<input type="checkbox"/>	4	87 UNLEADED	2.24	2.00	1.12	Pass	09/21/2009 12:02:25	
<input type="checkbox"/>	4	89 MIDGRADE	4.68	4.57	1.02	Pass	08/18/2009 12:13:32	
<input type="checkbox"/>	4	91 SUPREME	4.47	4.56	0.97	Pass	08/18/2009 12:16:15	

## Verifying DIM Mapping

- a. Enable all the check-boxes for fueling point 1 and 2 and then click START TEST in upper right corner.
- b. Starting at Fueling point 1 pump two gallons from the 87 unleaded hose. Complete the transaction and then pump 2.5 gallons from 89 unleaded hose. Complete transaction and then pump 1 gallon from 91 unleaded hose.
- c. Return to laptop screen and verify the amounts pumped correspond to the correct grade.
- d. If NO fuel amounts appear under the liquid column after 30 seconds of hanging up the nozzle, then that hose position number may be incorrect.
- e. If the fuel amounts appeared under a different hose (i.e. 87-2 gallons show up under the 91 row) then the hose position numbers may be in the wrong order. If this is the case edit the position numbers under each hose to match where the amounts populated. (i.e. if the 2 gallons pumped on 89 appear under the 91 hose then change the position number assigned to 89 to 91 and so on.)
- f. Repeat A through E on each fueling point.

If the mapping of the first 2 dispensers is incorrect, running the DIM Query is recommended.

 Verify the mapping of all hoses after query.

**Note:** If dispensers are not verified, daily and weekly assessments may not occur.