

JOHNSON V.A. Hospital

SITE SET-UP KEY

Above Ground

Tank 1	Tank 2	Tank 3
UST Diesel Fuel	UST Diesel Fuel	AST Diesel Fuel
Capacity: (Gal) Nominal 8,000 Actual 7,841	Capacity: (Gal) Nominal 10,000 Actual 9,684	Capacity: (Gal) Nominal 5,000 Actual 5,003
ALARM SETTING Leak Sensor #1 - Sump Yes Leak Sensor #3 - Brine/High Yes Leak Sensor #4 - Brine/Low Yes SP1: 95% High High SP2: 90% High High SP3: 20% Low Low Water @: 2" Ullage Set Pt. 90%	ALARM SETTING Leak Sensor #2 - Sump Yes Leak Sensor #5 - Brine/High Yes Leak Sensor #6 - Brine/Low Yes SP1: 95% High High SP2: 90% High High SP3: 20% Low Low Water @: 2" Ullage Set Pt. 90%	ALARM SETTING Leak Sensor None installed with this tank. SP1: 95% High High SP2: 90% High High SP3: 20% Low Low Water @: 2" Ullage Set Pt. 90%
7,056 Gal	8,716 Gal	4,508 Gal

NOTES: Tank Information, including which tank is being viewed, is indicated by the display of numbers in the "Rectangular" Display Area.

* To move/scroll through the activated tanks, press and release the TANK SELECT Button until the Tank ID changes in the Display.

The TYPE of Tank Information being displayed is indicated by illumination of Red LED's along the right side of the Display Area.

* To scroll through Tank Information, press and hold the MODE BUTTON until it BEEPS.

* Repeat until the Red LED on the right, changes to the desired item.

Gal - Gross Gallons
 Gal & °F - Net Gallons
 % Gal - Percent Gallons
 Ull - Ullage
 IN (first) - Fuel Inches
 IN (second) - Water Inches
 °F - Temperature

Indicates the amount of Fuel in NON Temperature Compensated Gallons.
 Indicates the amount of Fuel in Temperature Compensated Gallons.
 Indicates the amount of Fuel (in percentage of Volume) in the tank.
 Indicates how much free space in gallons that can be delivered into the tank to the Ullage Point.
 Indicates the height of the Fuel level in the tank.
 Indicates the height of the Water level in the tank, if water float enabled.
 Indicates the Temperature of the Fuel in degrees Fahrenheit

Alarm Conditions are indicated by illumination of Red LED's along the left side of the Display Area (Leak, SP1, SP2, SP3 & Water).

* If an LED is FLASHING, then an Alarm Condition exists for a tank, but it's Tank Number is currently not displayed in the Display Area.

* The LED will STOP Flashing when the appropriate Tank ID is Displayed in the Display Area.

* To IDENTIFY the appropriate Tank with the Alarm Condition(s):
 Press and release the TANK SELECT Button until the appropriate Tank ID is displayed in the Display Area.

JOHNSON V.A. Hospital

LEAK SENSOR

SET-UP

TANK 2

Capacity (Gallons)
Nominal: 10,000
Actual: 9,684
Doublewall - Fiberglass
UST

SENSOR

Board
Number Position

High

3 (# 3)

4 (# 4)

1 (# 1)

TANK 3

Capacity (Gallons)
Nominal: 5,000
Actual: 5,009
~~Singlewall~~ - Steel
DBL WALL AST

SENSOR

Type Number Board
Position

Hydrostatic

High # 5 (# 5)

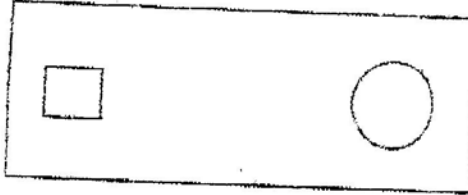
Low # 6 (# 6)

Sump

2 (# 2)

No External Leak Sensors.

INTERSTITIAL
SENSOR
ADDED
APRIL 2010



David McGarvey

Tank Configuration

Tank ID	01	02	03	04	05	06
Tank Enable	Yes	Yes	Yes	No	No	No
Tank Name	Fuel	Fuel	Fuel	Product	Product	Product
Product Type	No. 2	No. 2	No. 2	87 Octane	87 Octane	87 Octane
Water Float Enable	Yes	Yes	Yes	No	No	No
Temperature Enable	Yes	Yes	Yes	No	No	No
Theft Detect Enable	No	No	No	No	No	No
Tank Type	Custom (3)	Custom (3)	Vertical	Flat	Flat	Flat
Vol. Scaling Mode	X1	X1	X1	X1	X1	X1
Tank Capacity (Gal.)	7,841	9,684	5,010	0	0	0
Unusable Vol. (Gal.)	0	0	0	0	0	0
Unusable Vol. (Gal.)	0.0	0.0	0.0	0.0	0.0	0.0
Manifold Factor	None	None	None	None	None	None
Tank Radius (Inches)	48.0	48.0	0.0	0.0	0.0	0.0
Tank Length (Inches)	0.0	0.0	158.0	0.0	0.0	0.0
Tank Rise (Inches)	0.0	0.0	0.0	0.0	0.0	0.0
Motion Height Band (Inches)	0.10	0.10	0.10	0.00	0.00	0.00
Minimum Log Vol. (Gal.)	50	50	50	0	0	0
Custom Size - Height #1	9.0	9.0				
Custom Size - Volume #1	419	528				
Custom Size - Height #2	19.0	19.0				
Custom Size - Volume #2	1,207	1,521				
Custom Size - Height #3	33.0	33.0				
Custom Size - Volume #3	2,630	3,258				
Custom Size - Height #4						
Custom Size - Volume #4						
Custom Size - Height #5						
Custom Size - Volume #5						
Probe Calibration Factor	9.106	9.106	9.120	8.000	8.000	8.000
Probe Type	MP450	MP450	MP450	MP450	MP450	MP450
Probe Length	100.0	100.0	172.0	0.0	0.0	0.0
Product Height Float Offset	0.0	0.0	0.0	0.0	0.0	0.0
Water Height Float Offset	0.0	0.0	0.0	0.0	0.0	0.0
Probe Location Offset	0.0	0.0	0.0	0.0	0.0	0.0
Probe Rep Rate	0.00	0.00	0.00	0.00	0.00	0.00
Leak Test Enable	No	No	No	No	No	No
Leak Test Mode	Manual	Manual	Manual	Manual	Manual	Manual
Leak Test Limit	0.0	0.0	0.0	0.0	0.0	0.0
Setpoint #1 Location (%)	↑ 95.0	↑ 95.0	↑ 95.0	↑ 0.0	↑ 0.0	↑ 0.0
Setpoint #1 Name	High High	High High	High High	Alarm	Alarm	Alarm
Setpoint #1 Horn Enable	Yes	Yes	Yes	Yes	Yes	Yes
Setpoint #2 Location (%)	↑ 90.0	↑ 90.0	↑ 90.0	↑ 0.0	↑ 0.0	↑ 0.0
Setpoint #2 Name	High	High	High	Alarm	Alarm	Alarm
Setpoint #2 Horn Enable	Yes	Yes	Yes	Yes	Yes	Yes
Setpoint #3 Location (%)	↓ 20.0	↓ 20.0	↓ 20.0	↑ 0.0	↑ 0.0	↑ 0.0
Setpoint #3 Name	Low	Low	Low	Alarm	Alarm	Alarm
Setpoint #3 Horn Enable	Yes	Yes	Yes	Yes	Yes	Yes
Setpoint Water Location	2.0	2.0	2.0	0.0	0.0	0.0

Tank Configuration (Cont.)

Tank ID	07	08	09	10	11	12
Tank Enable	No	No	No	No	No	No
Tank Name	Product	Product	Product	Product	Product	Product
Product Type	87 Octane	87 Octane	87 Octane	87 Octane	87 Octane	87 Octane
Water Float Enable	No	No	No	No	No	No
Temperature Enable	No	No	No	No	No	No
Theft Detect Enable	No	No	No	No	No	No
Tank Type	Flat	Flat	Flat	Flat	Flat	Flat
Vol. Scaling Mode	X1	X1	X1	X1	X1	X1
Tank Capacity (Gal.)	0	0	0	0	0	0
Unusable Vol. (Gal.)	0	0	0	0	0	0
Ungageable Vol. (Gal.)	0.0	0.0	0.0	0.0	0.0	0.0
Manifold Factor	None	None	None	None	None	None
Tank Radius (Inches)	0.0	0.0	0.0	0.0	0.0	0.0
Tank Length (Inches)	0.0	0.0	0.0	0.0	0.0	0.0
Tank Rise (Inches)	0.0	0.0	0.0	0.0	0.0	0.0
Motion Height Band (Inches)	0.00	0.00	0.00	0.00	0.00	0.00
Minimum Log Vol. (Gal.)	0	0	0	0	0	0
Custom Size - Height #1						
Custom Size - Volume #1						
Custom Size - Height #2						
Custom Size - Volume #2						
Custom Size - Height #3						
Custom Size - Volume #3						
Custom Size - Height #4						
Custom Size - Volume #4						
Custom Size - Height #5						
Custom Size - Volume #5						
Probe Calibration Factor	8.000	8.000	8.000	8.000	8.000	8.000
Probe Type	MP450	MP450	MP450	MP450	MP450	MP450
Probe Length	0.0	0.0	0.0	0.0	0.0	0.0
Product Height Float Offset	0.0	0.0	0.0	0.0	0.0	0.0
Water Height Float Offset	0.0	0.0	0.0	0.0	0.0	0.0
Probe Location Offset	0.0	0.0	0.0	0.0	0.0	0.0
Probe Rep Rate	0.00	0.00	0.00	0.00	0.00	0.00
Leak Test Enable	No	No	No	No	No	No
Leak Test Mode	Manual	Manual	Manual	Manual	Manual	Manual
Leak Test Limit	0.0	0.0	0.0	0.0	0.0	0.0
Point #1 Location (%)	0.0	0.0	0.0	0.0	0.0	0.0
Point #1 Name	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm
Point #1 Horn Enable	Yes	Yes	Yes	Yes	Yes	Yes
Point #2 Location (%)	0.0	0.0	0.0	0.0	0.0	0.0
Point #2 Name	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm
Point #2 Horn Enable	Yes	Yes	Yes	Yes	Yes	Yes
Point #3 Location (%)	0.0	0.0	0.0	0.0	0.0	0.0
Point #3 Name	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm
Point #3 Horn Enable	Yes	Yes	Yes	Yes	Yes	Yes
Point Water Location	0.0	0.0	0.0	0.0	0.0	0.0

Header Configuration

Site ID	02442	Baud Rate	9600	Set Point Units	% Volume
Unit ID	01	Number of Tanks	2	Alarm Delay	None
Default Mode	Gross Vol	Sales Enable	No	Auto Print Enable	Yes

Inventory Configuration

Inventory Log Days		Inventory Log Times			
Enable - Sunday	No	#1. 12:00:00 AM	Printer Enable	No	
Enable - Monday	No	#2. 12:00:00 AM	Printer Enable	No	
Enable - Tuesday	No	#3. 12:00:00 AM	Printer Enable	No	
Enable - Wednesday	No				
Enable - Thursday	No				
Enable - Friday	No				
Enable - Saturday	No				

Theft Configuration

	Open Time	Close Time
Mon-Fri	12:00:00 AM	12:00:00 AM
Saturday	12:00:00 AM	12:00:00 AM
Sunday	12:00:00 AM	12:00:00 AM

Modem Configuration

Fax ID	00000000
Dialing type	Tone
Port speed	2400
Modem type	None
Pause length	1

Dial Out Configuration

Dial Out #	#1	#2	#3	#4	#5
Phone #					
Receiving Device	Data	Data	Data	Data	Data
Set Point #1	No	No	No	No	No
Set Point #2	No	No	No	No	No
Set Point #3	No	No	No	No	No
Water	No	No	No	No	No
Theft	No	No	No	No	No
Leak	No	No	No	No	No
Error	No	No	No	No	No
Inventory	No	No	No	No	No
Inventory Dial out Time	12:00:00 AM	12:00:00 AM	12:00:00 AM	12:00:00 AM	12:00:00 AM
Non-Hazardous CC	No	No	No	No	No
Physically Safe CC	No	No	No	No	No

Relay Configuration (Site Specific)

	Relay Select
Left	[X][X][X]
Power Failure	[X][X][X]
System Error	[X][X][X]

	SP #1 Trigger	SP #2 Trigger	SP #3 Trigger	Leak Trigger	Water Trigger
Tank #1	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #2	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #3	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #4	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #5	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #6	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #7	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #8	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #9	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #10	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #11	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]
Tank #12	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]	[X][X][X]

Relay Configuration (Non-Hazardous Contact Closure inputs)

Input #	Relay Select	Input #	Relay Select
Input #1	[X][X][X]	Input #5	[X][X][X]
Input #2	[X][X][X]	Input #6	[X][X][X]
Input #3	[X][X][X]	Input #7	[X][X][X]
Input #4	[X][X][X]	Input #8	[X][X][X]

Relay Configuration (Intrinsically Safe Contact Closure inputs)

Input #	Relay Select	Input #	Relay Select	Input #	Relay Select
Input #1	[X][X][X]	Input #14	[X][X][X]	Input #27	[X][X][X]
Input #2	[X][X][X]	Input #15	[X][X][X]	Input #28	[X][X][X]
Input #3	[X][X][X]	Input #16	[X][X][X]	Input #29	[X][X][X]
Input #4	[X][X][X]	Input #17	[X][X][X]	Input #30	[X][X][X]
Input #5	[X][X][X]	Input #18	[X][X][X]	Input #31	[X][X][X]
Input #6	[X][X][X]	Input #19	[X][X][X]	Input #32	[X][X][X]
Input #7	[X][X][X]	Input #20	[X][X][X]	Input #33	[X][X][X]
Input #8	[X][X][X]	Input #21	[X][X][X]	Input #34	[X][X][X]
Input #9	[X][X][X]	Input #22	[X][X][X]	Input #35	[X][X][X]
Input #10	[X][X][X]	Input #23	[X][X][X]	Input #36	[X][X][X]
Input #11	[X][X][X]	Input #24	[X][X][X]	Input #37	[X][X][X]
Input #12	[X][X][X]	Input #25	[X][X][X]	Input #38	[X][X][X]
Input #13	[X][X][X]	Input #26	[X][X][X]	Input #39	[X][X][X]

Relay Configuration (Relay Mode)

Relay #	Normal State	Panel Acks.	Delay	Latch Enable	Set Point #1	Set Point #2	Set Point #3	ISCC Off
Relay #1	Off	No	None	No	0	0	0	0
Relay #2	Off	No	None	No	0	0	0	0
Relay #3	Off	No	None	No	0	0	0	0
Relay #4	Off	No	None	No	0	0	0	0
Relay #5	Off	No	None	No	0	0	0	0
Relay #6	Off	No	None	No	0	0	0	0
Relay #7	Off	No	None	No	0	0	0	0
Relay #8	Off	No	None	No	0	0	0	0

Contact Closure Input Configuration (Non-Hazardous)

Enable	Input Name	Normally	Enable	Input Name	Normally
Off	Input	Close	Off	Input	Close
Off	Input	Close	Off	Input	Close
Off	Input	Close	Off	Input	Close
Off	Input	Close	Off	Input	Close

Contact Closure Input Configuration (Intrinsically Safe)

Input #	Enable	Sensor Type	Sensor Mode	Input Name	Fault Detect	Normally
Input # 1	Alarm	ES825-200	Leak	Input	Yes	Open
Input # 2	Alarm	ES825-200	Leak	Input	Yes	Open
Input # 3	Off	RSU800	Leak	Hi Reservoir	No	Close
Input # 4	Off	RSU800	Leak	Lo Reservoir	No	Close
Input # 5	Off	RSU800	Leak	Hi Reservoir	No	Close
Input # 6	Off	RSU800	Leak	Lo Reservoir	No	Close
Input # 7	Off	ES820	Leak	Input	No	Close
Input # 8	Off	ES820	Leak	Input	No	Close
Input # 9	Off	ES820	Leak	Input	No	Close
Input #10	Off	ES820	Leak	Input	No	Close
Input #11	Off	ES820	Leak	Input	No	Close
Input #12	Off	ES820	Leak	Input	No	Close
Input #13	Off	ES820	Leak	Input	No	Close
Input #14	Off	ES820	Leak	Input	No	Close
Input #15	Off	ES820	Leak	Input	No	Close
Input #16	Off	ES820	Leak	Input	No	Close
Input #17	Off	ES820	Leak	Input	No	Close
Input #18	Off	ES820	Leak	Input	No	Close
Input #19	Off	ES820	Leak	Input	No	Close
Input #20	Off	ES820	Leak	Input	No	Close
Input #21	Off	ES820	Leak	Input	No	Close
Input #22	Off	ES820	Leak	Input	No	Close
Input #23	Off	ES820	Leak	Input	No	Close
Input #24	Off	ES820	Leak	Input	No	Close
Input #25	Off	ES820	Leak	Input	No	Close
Input #26	Off	ES820	Leak	Input	No	Close
Input #27	Off	ES820	Leak	Input	No	Close
Input #28	Off	ES820	Leak	Input	No	Close
Input #29	Off	ES820	Leak	Input	No	Close
Input #30	Off	ES820	Leak	Input	No	Close
Input #31	Off	ES820	Leak	Input	No	Close
Input #32	Off	ES820	Leak	Input	No	Close
Input #33	Off	ES820	Leak	Input	No	Close
Input #34	Off	ES820	Leak	Input	No	Close
Input #35	Off	ES820	Leak	Input	No	Close
Input #36	Off	ES820	Leak	Input	No	Close
Input #37	Off	ES820	Leak	Input	No	Close
Input #38	Off	ES820	Leak	Input	No	Close
Input #39	Off	ES820	Leak	Input	No	Close
Input #40	Off	ES820	Leak	Input	No	Close