# **ST 1400/1800**

Automatic Tank Gauging & Electronic Line Leak Detection System

Red Jacket Marley Pump Co. 9650 Alden Rd. Lenexa, KS 66215 Tel: 913 541-2985



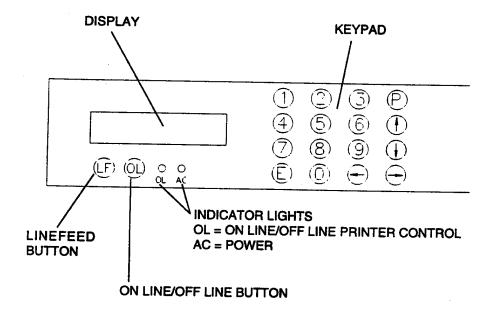
Evaluator: ADA Technologies, Inc. - 09/30/92

**System Description:** The ST1400/1800 controllers are electronic tank gauging devices used for leak detection and inventory management. The controllers can collect level and density data from 4 (ST1400) or 8 (ST1800) ultrasonic inventory sensors and compute various volumetric quantities, correcting all volumes for temperature. The systems have programmable alarm thresholds to alert the operator of various alarm conditions. The system is also capable of storing at least the last 33 events of any particular report. The ADD (accumulative data diagnostics) option adds the capability of continuous leak detection (not 3rd partied). The ST1401/1801 systems add sensor monitoring for interstitial areas, wells and sumps. The ST1400L/1800L add the capability of line leak detection with positive pump shut down.

Certification:	<b>TANKS:</b> 0.2 & 0.1 gph <b>PIPING:</b> 3, 0.2 & 0.1 gph
Capacity:	TANKS: Max. 18,000 gal PIPING: Max. 55.1 gal
<b>Test Period:</b> (W/o ADD)	Min. 2.5 hrs with tank 50 - 95% full (0.2 gph) 95 - 100% full (0.1 gph)
Limitations:	<ul> <li>No dispensing or delivery during test (w/o ADD)</li> <li>Not evaluated using manifolded tanks</li> <li>Revised - 12/29/98</li> </ul>

**SAMPLE REPORTS** 

## **ST 1800**



#### 1. View Display Options (at SELECT DISPLAY)

- a. Press desired display option keypad #
- b. Press  $\uparrow$  or  $\downarrow$  key to view remaining tanks

#### 2. View History Reports (including leak test)

- a. Press 6
- b. Press  $\rightarrow$  to scroll to desired report
- c. Press  $\uparrow$  or  $\downarrow$  key to scroll to "reserved report number"
- d. Press  $\rightarrow$  or to view info

## 3. Print Inventory Report

(green 'OL' indicator light must be on)

a. Press P key for all tanks
i. *For only one feature*, press desired option keypad #
ii. Press P

#### 4. Print History Reports (green 'OL' indicator light must be on)

- a. Press 6
- b. Press  $\rightarrow$  to scroll to desired report
- c. Press  $\uparrow$  or  $\downarrow$  key to scroll to "reserved report number"
- d. Press **P** to print report

#### **DISPLAY OPTIONS\***

- 1. Product Height
- 2. Gross Volume
- 3. Ullage
- 4. Water Height
- 5. Product Temperature
- 6. Report History
- 7. Product Dispensed
- 8. System Status
- 9. Leak Detection

## \*Press "**E**" to get to "SELECT DISPLAY" <u>CONSOLE</u>

## **DISPLAY**

02AUG94 10:56:01 02AUG94 12:08:22 9.3 PSI A01 0 RT
02AUG94 12:08:22 9.3 PSI A01 0 
I ION SYSTEMS 20CT95
200795
200795
200795
ð1:27:32
.038 GAL/H FAIL
ALZH 99.9%
39.54 INCHES 309.7 GALLONS 30AY97 22:15:59 90AY97 01:27:32 3 HRS 11 MINS 8.00 INCHES 60.00 INCHES 6060Y97 16:31:46