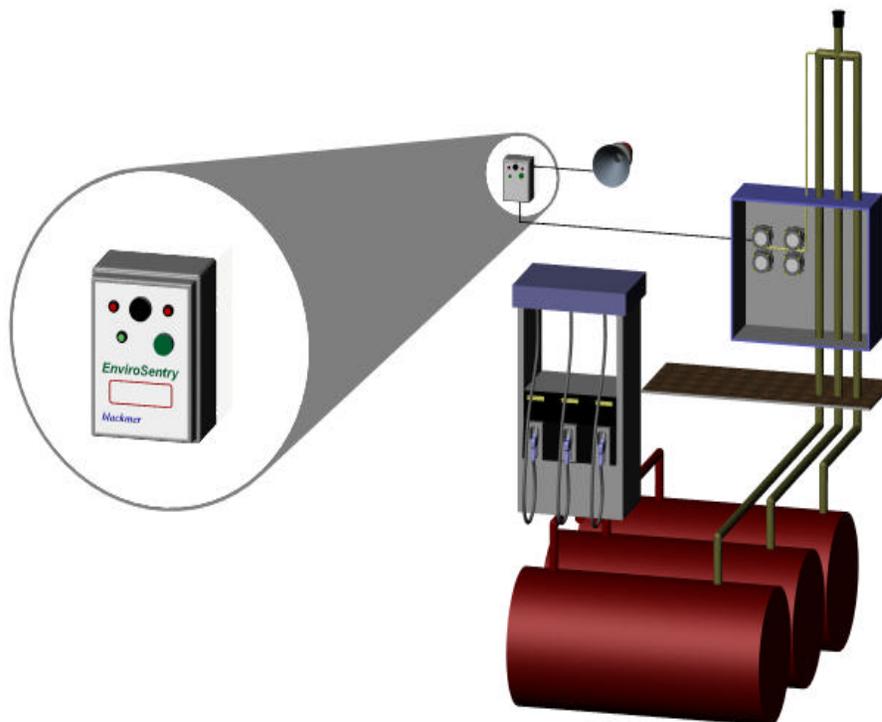


# *EnviroSentry*<sup>TM</sup> Vapor Recovery System Monitor



# Product Overview

- The EnviroSentry is a monitoring system that:
  - will detect and alert for stages I & II vapor recovery system malfunctions or failures.
  - will work with balanced, motor driven and fluid driven vapor recovery systems.
  - Offers flexibility and adjustment to meet *local requirement(s)*
- The EnviroSentry is a proven product with over 300 installed units in operation for 2 or more years.

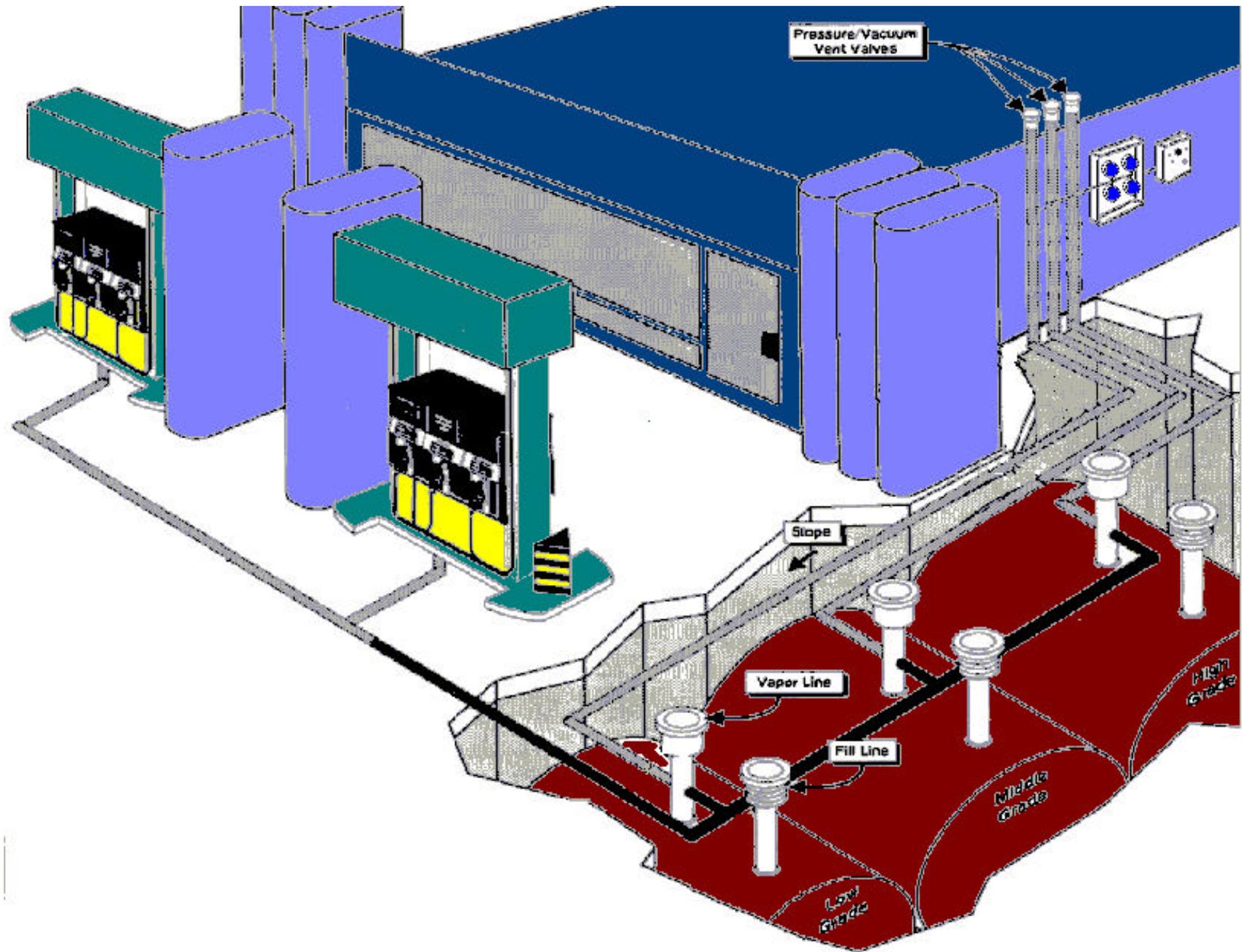
# Failures Detected

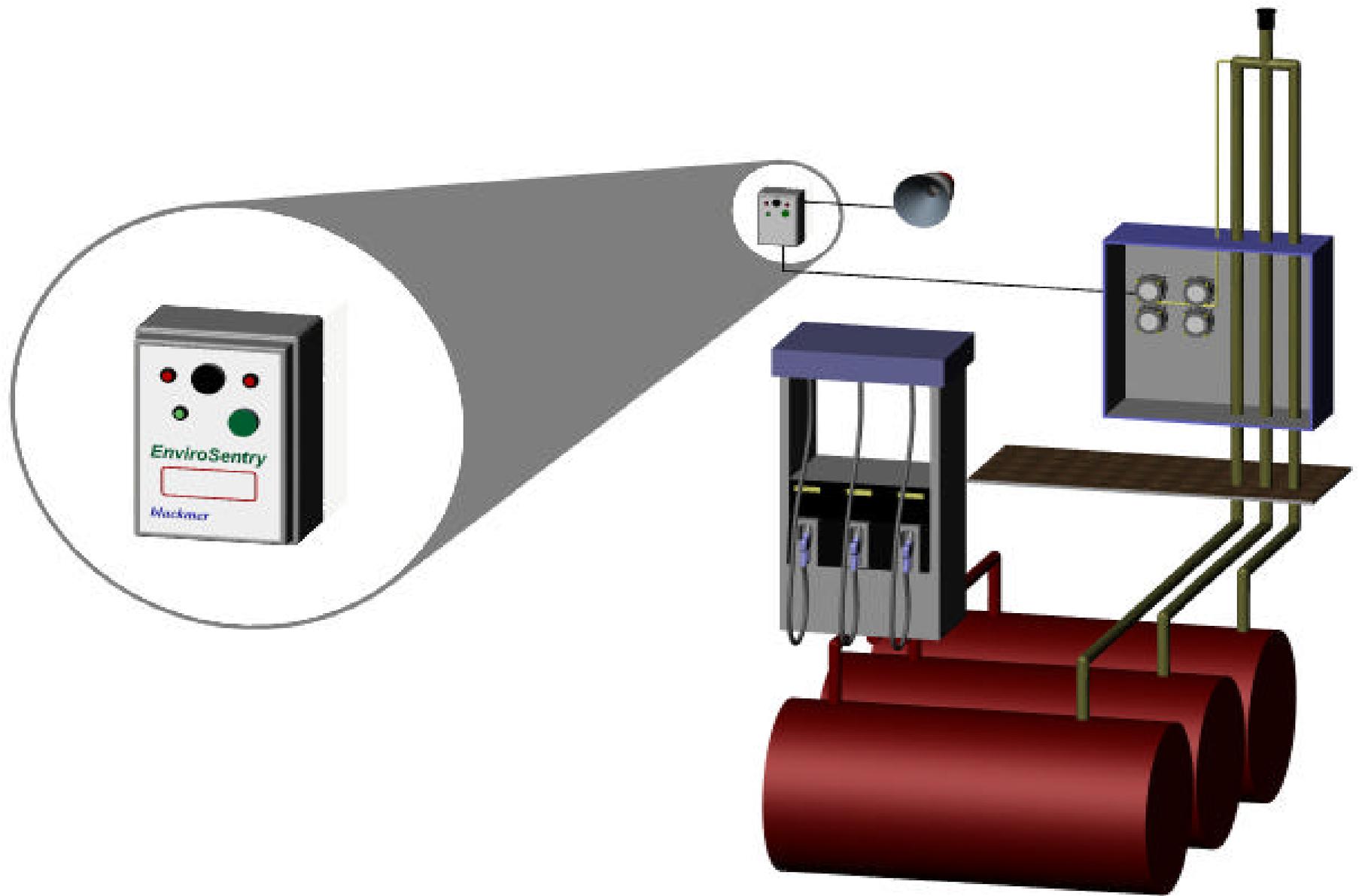
## Phase I

- Vapor line or system leaks
- Open or leaky valves

## Phase II

- Blocked vapor return lines
- Collapsed hoses
- Inoperative nozzles
- Faulty or inoperative vapor pump
- General obstruction of vapor flow





# System Operation

- The EnviroSentry detects vapor recovery system failure by monitoring the storage tank ullage pressure.

# System Operation

Both Phase I & II are independently monitored.

- Phase I: Tank Hermeticity
- Phase II: Operational Limits

# System Operation

properly operating system indicates that ullage pressure migrates between -6.0 to +2.5 inches of H<sub>2</sub>O

water column

-8 in.

-6 in.

0

+2.5 in.



phase

II

1 hour

I

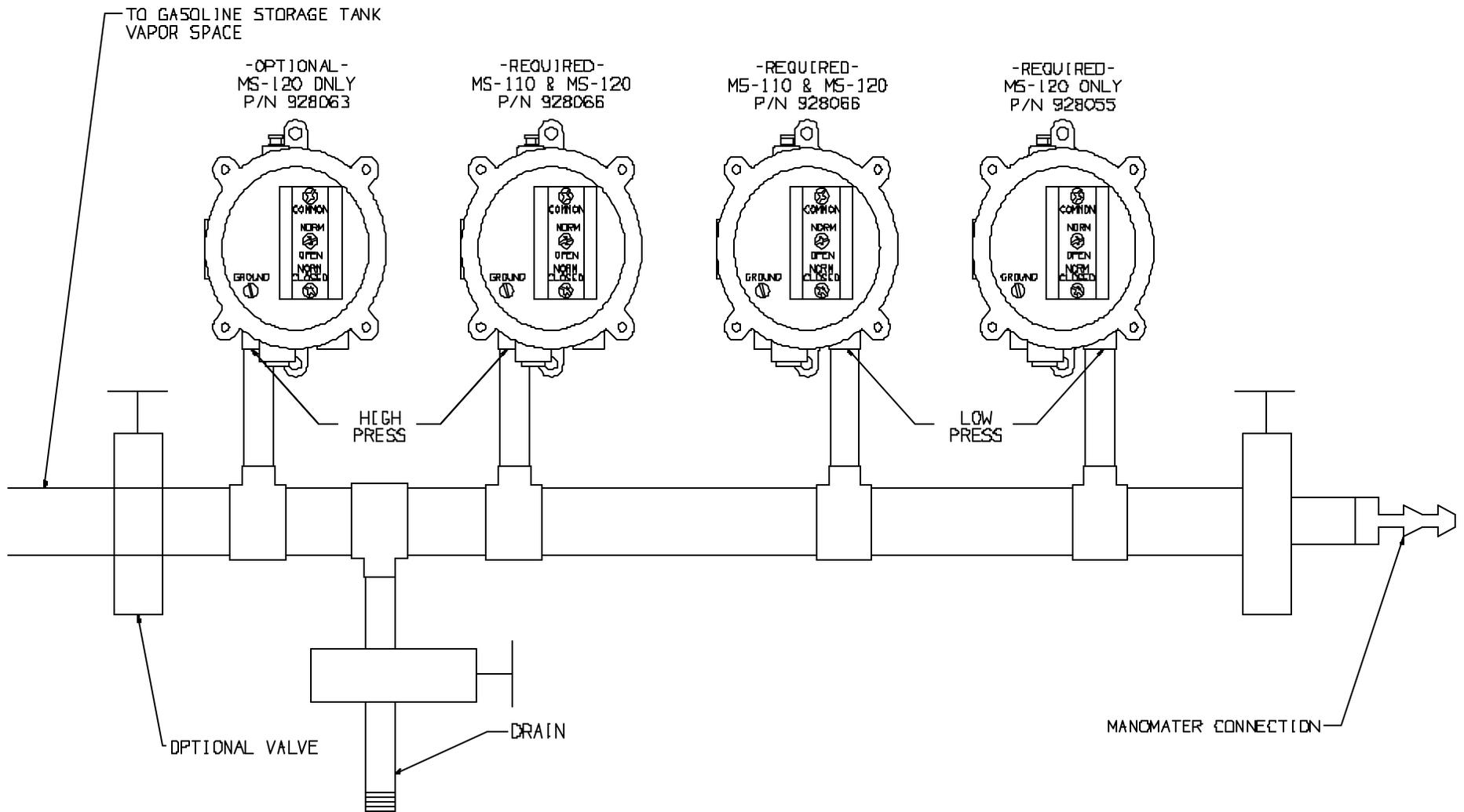
4 hours

II

1 hour

monitoring system

EnviroSentry™ Pressure / Vacuum Manifold



**Figure E**  
Mechanical Illustration.

# Product Specification

- Easy to install in new or existing stations
- One system per station
- “Hands-off” operation
- Monitors both stage I & stage II simultaneously and continuously 24 hours a day
- Indicates failure mode (phase I, II or both)
- Visual & audio alarm, w/ external alarm output signal option
- Intrinsically safe electronics & XP sensors

# Product Specification

- The EnviroSentry consists of :
  - A control unit that is intrinsically safe and Underwriter's Laboratory Listed.
  - Explosion proof pressure switches for monitoring tank ullage pressure.
  - Adjustable monitoring range (pressure) and alarm setting (time)

# *EnviroSentry*<sup>TM</sup> Vapor Recovery System Monitor

