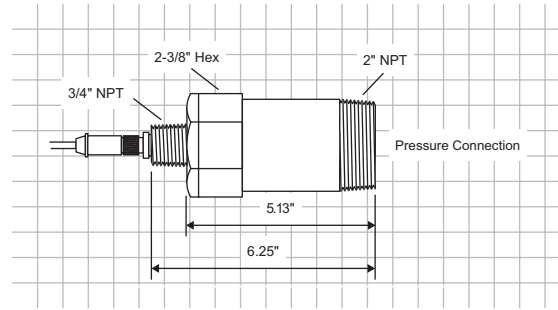
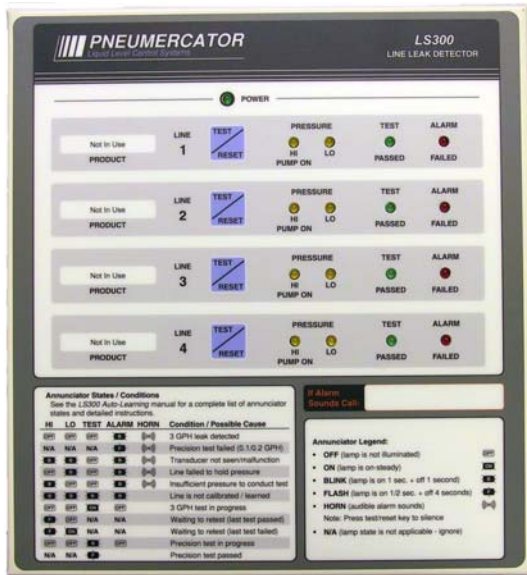


Multi-channel, AutoLearning Pressurized Line Leak Detection System



Product Description

The LS 300 is an electronic precision line-leak-detection system intended for use with pressurized buried liquid piping systems. It is designed to operate as a stand-alone system or as a companion to a TMS Series console via logic outputs. The LS 300 performs EPA-compliant continuous leak detection for 3 GPH catastrophic, 0.2 GPH monthly, and 0.1 GPH precision leak tests and provides audible/visual alarms and statuses as well as positive pump shutdown in the event a catastrophic leak is detected. Leaks can be detected between the STP check valve and the dispenser solenoid valve. The LS 300 is available to monitor two, three or four product lines.

Features

- Continuous detection of catastrophic failures with positive pump shutdown
- Automatic learning of site-specific piping characteristics enhances pressure sensing dynamic range and reduces calibration errors
- Line transducer communications includes data error checking
- Suitable for all ethanol blends
- Eliminates the need for costly annual precision tests by automatically precision testing when inactivity is detected
- Solid-state relay control provides automatic line charging to reduce volumetric thermal effects and enhance test reliability
- LED indicators for each channel provide real time status information including leak test results

Specifications

CONSOLE

- Dimensions: 11" W x 12"H x 4"D
- Weight: 10.25 lbs
- Operating Temperature: 32° to +160° F (0° to +70 C)
- Humidity: 95% Non-condensing
- Enclosure Rating: NEMA 1
- Power Requirements: 120/240 VAC 50/60Hz, 20W Max.
- Audible Alarm: 85db
- Visual Indication: 4 LEDs per channel
- Dry contact outputs: 0.2 GPH Pass, 0.1 GPH Pass, General Fail

TRANSDUCER

- Safety Certification: Explosion-Proof
- Electrical Connection: 3-Conductor Cable, 3/4" NPT Male
- Pressure Connection: 2" NPT Male
- Pressure Rating: 100 PSI
- Overpressure: 200 PSI
- Burst Pressure: 500 PSI
- Operating Temperature: -4°F – 185°F (-20°C – 85°C)
- Compensated Temperature: 30°F – 130°F (0°C – 55°C)

Certifications/Approvals

- NCTL Approved
- Third-Party tested using EPA Approved method, National work group accepted.
  - 3.0 GPH Continuous Test: Pd = 100.0%, Pfa = 0%
  - 0.2 GPH Monthly Test: Pd = 100.0%, Pfa = 0%
  - 0.1 GPH Precision Test: Pd = 100.0%, Pfa = 0%

|   |       |        |        |      |        |      |      |      |
|---|-------|--------|--------|------|--------|------|------|------|
| Pipe Diameter I.D.                      | 1"    | 1 1/2" | 1 3/4" | 2"   | 2 1/2" | 3"   | 4"   | 5"   |
| approx. max rigid pipe feet/163 gallons | 3995' | 1775'  | 1304'  | 998' | 639'   | 443' | 249' | 159' |
| approx. max flex pipe feet/39.5 gallons | 968'  | 430'   | 316'   | 242' | 154'   | 107' | 60'  | 38'  |

Note: Specifications subject to change w/o notice. 08-06-2004



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