



Accu/Line Injection Systems



More than 30 years of solid performance characterize the injection odorizers manufactured by OdorEyes® Technologies. We introduced the first computer controlled injection odorizers in 1978 and have been consistently raising the performance bar ever since. The OdorEyes® Injection Odorizer continues this trend by incorporating the latest in program logic control (PLC) technology with injection pump dependability into the design of every Accu/Line Injection system.

This 21st century design provides a higher level of accuracy, greater flexibility and state of the art data acquisition software to help you manage the system at the highest level of accuracy available. The unit can be programmed to respond to changing conditions and performance data feedback in a variety of ways, while maintaining continuous accurate service. The 12/24 vDC PLC unit has battery backup for uninterrupted service or can be equipped with optional solar power.

The PLC storage capacity holds an audit trail detailing the system's performance for a specified time period, anywhere from 1 day to over 1 year. You select the time frame to match your needs. The alarm log shows a date/time stamp for all alarm occurrences and when they were cleared. Additionally, the central controller system monitors gas flow in the pipeline. This OdorEyes® advancement permits checking for deviations from normal operation allowing the user to take appropriate action if any

problems are detected. The system also automatically adjusts the output of odorant accurately proportional to the flow rate. With the Accu/Line data acquisition software you can save on maintenance costs by reading, altering and downloading system information remotely using a PC, modems and the system's RS-232 serial port.

Accu/Line Injection Odorizers utilize the OdorEyes® BIP Series of Injection Pumps for the ultimate in proven performance and environmental protection from unwanted spills and leaks. The BIP incorporates a Teflon bellows that separates the chemical being injected from the working side of the pump, as well as from the outside environment. The simplified design keeps replacement parts to a minimum and repairs quick and easy.



Bellows Injection Pump:

- ◆ Typical repairs can be completed without exposing the product to atmosphere.
- ◆ Stainless Steel/Kalrez Check Valves.
- ◆ Environmental Protection from unwanted spills and leaks.
- ◆ Simplified Design keeps replacement parts to a minimum.
- ◆ Easy and Quick repairs.

Accu/Line Injection Systems

Specifications

Central Controller (PLC)

Functions:

Normal Operation: Controller is programmed to inject odorant proportional to pipeline gas flow at a pre-programmed odorization rate in pounds/mmcf.
Fail-Safe: Backup mode on loss of power or meter signal. Output pulses programmed to user needs.
No-Flow Shutdown: May be programmed to shut odorizer down if the station has no flow (prevents over odorization)
Solenoid Valves Three-way, 12/24 vdc, explosion proof.

Touch Screen Programming:

Easy to read visuals provide you with the ability to program, troubleshoot and monitor all aspects of the system.

Power Required:

- 12/24 volts DC source:
- Uninterruptible power supply powered by 60 Hz, 115 Volts AC, using dry storage battery back-up.
 - Solar panel with dry storage battery and charging regulator.

Gas Flow Input:

- User configurable for:
- Analog 1 - 5 V or 4 - 20 maDC proportional to flow rate, or
 - Dry-contact pulses, user configures number of input pulses per output pulse to solenoid, or
 - Dry-contact, one output pulse per input pulse.

Outputs:

12/24 vDC to solenoids
Dry contact, common alarm
Electronics Enclosures

Pump Cabinet:

Dimensions in inches: May vary according to options

Environmental and Electrical Safety:

NEMA-4 or NEMA-4X (weather tight seal with stainless steel hardware) primed and epoxy coated.
Operating temperature; -30 to +120 Degrees F.
Operating relative humidity: 5% to 100% condensing.

Optional explosion-proof enclosure.
Optional heater available.

Odorant Tank:

OdorEyes® tanks are made to ASME code and are code stamped for pressure rating. Tanks typically are mounted horizontal and are equipped with electromagnestic or dip tape level gauges and valves. Tanks may include optional steel skids and containment pans.



Piping and controls for a typical system: Odorant flows from the tank, through a filter, gas flow meter and a liquid odorant flow meter to the gas pipeline. Signals from the gas flowmeter and the odorant flow meter are used to control the pumps (via solenoid valves) providing the odorant to the pipeline. The odorant meter alerts the PLC of pump failures, vapor-lock or other problems. The PLC will respond according to it's programming. Responses can include operating the pump several times to clear the problem, switching to an optional standby pump, generating an alarm or shutting down the system.



13839 West Belfort
Sugar Land, Texas 77478
Phone: 1-877-ODORIZE
Phone: 281-491-3409 Fax: 281-491-8344
www.odoreyes.com