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Principal of Operation

The operating principal of ByPass Odorization is to use higher pressure gas supply from the transmission line to introduce odorant vapors into a lower pressure feeder or distribution line. This is accomplished by diverting or bypassing un-odorized natural gas through an odorant filled day tank to mix with odorant vapors. Odorization occurs when the odorant saturated bypass gas is returned to the down stream line. A signal from a meter interface switch is received by the PRECO Sentinel II Controller to actuate the pulse bottle solenoid valve. The controls can operate on 115 VAC or 12 VDC Solar.

PRECO Quality products At Reasonable Prices

- Explosion Proof, Low Watt Solenoid Valve
- Pulse Bottle with 0-50 cu. in. field adjustable volume
- Day Tank with Odorant Liquid Level Sight Gauge
- 10, 50, & 100 Gallon Bulk Tanks are available
- Modular Containment Tubs or Base Skid Frames
- Flow Tracking Controller
- Charcoal Vapor Canister
- Intrinsically Safe Meter Interface Switch Control
- Odorant Temp. Gauge
- Solar Controls and Solar Panels with Gel Cell Battery (Optional)
- Field Manual with installation drawings included in control cabinet
- Nema 4X enclosures
- Hot Dip Galvanized Frames
- Easy modular installation

Pulse ByPass Odorization Equipment

The PRECO Pulse ByPass Odorization System has been designed for lower volume applications and offers a cost effective alternative to higher maintenance pump type injection systems.

This system features an adjustable volume pulse bottle, a day tank with odorant level & temperature gauge, and a bulk odorant tank all mounted on one easy to install modular base skid or as shown with a containment tub. This system provides odorization that tracks the flow of natural gas. Solar Units are available for remote locations without access to AC power.

The Sentinel II Controller uses a “SSAC” Solid State Controller. It receives a normally open dry contact closure proportional to flow, from the customer’s gas line instruments or PRECO meter interface switch. The system operates on 115 VAC or 12 VDC Control with Solar Panel and Gel Cell Battery.

The PRECO Pulse Bypass Odorizer uses a 0 to 50 cu. in. adjustable volume pulse bottle. This unique design feature allows the customer to make field adjustments of bottle volume. The working volume of the pulse bottle may be tuned by changing length of the adjusting rod.

