

The Safety and Protection of NJEX Odorization Systems



Understanding the expanding needs of our industry, the real question now is... "How safe is the Natural Gas going into yours and your neighbor's house...really?" The safety of our communities depend on the safe use of natural gas. Proper odorization relies on the accurate injection of uncontaminated odorant into the gas transmission or distribution system. The NJEX Odorization Systems employ our rugged, field-proven, positive-displacement pump, designed specifically for odorant applications. The NJEX series pumps are volumetrically adjustable and positively inject precise repeatable increments of liquid odorant. Designed for endurance, the NJEX pumps utilize a modular design for ease of maintenance.

Precise Odorant Measurement

The NJEX Odorization Systems provide accurate measurement of injected odorant. The capabilities of the NJEX Verometer expand the operational flow ranges of the NJEX 6300, 7300 & 8300 systems. With an ultrahigh resolution of .001 lbs. of odorant, and self-compensated for temperature, the NJEX Odorization Systems provide greater performance information than ever before.

Advanced Micro-Processor Control

For the NJEX Odorant Systems YZ has specifically designed the most advanced dual microprocessor based controller available in the industry. The powerful N-300 operates on a self-contained, solar or AC charged battery system, designed to provide up to 30 days of worry-free operation without requiring auxiliary power. Easy to use, the N-300 controller provides local and remote programming access. With the automated upload-feature, available through the use of the Sentry4 Memory Module, the

technician can plug in the module, turn the NJEX system on, and upload the parameters automatically. Operation and programming information is locally displayed via a 4 line 20 character Alphanumeric display. While incorporating advanced features the new NJEX N-300 controller provides all the features you have come to depend on *and more...*



NJEX Interactive Remote Communication

The NJEX system is ready to communicate through the use of Modbus™ protocol which supports both RTU and ASCII formats. Every new NJEX system, as a standard feature, provides two RS-485 commlinks which are configurable for either redundant SCADA communication or one SCADA commlink and one direct Sentry4 commlink. This allows remote communication of specific system alarms, injected odorant volumes, remote programming, and remote system standby activation.

Interactive In Real Time

To communicate data is not enough, an ability to quickly interact based on the information we receive in real-time is important to be effective. Implementing our commitment of application specific development, YZ designed the new Windows™ based Sentry4 software system specifically for odorization system management and interactive remote communication. With Sentry4 software, the user is now on-line and interactive with the system. System control operations, system programming, and alarm status information is now accessed remotely. The NJEX Sentry4 Software allows the remote downloading of NJEX system performance history for audit trail purposes and analysis. Troubleshooting the system is easy using the Sentry4 QuickView screen where a snapshot of critical realtime subsystem information and alarm status is graphically displayed. This allows the technician to remotely view and react to the entire system operation at a glance without requiring a site inspection. If programming changes are required, the Sentry4 enables the technician to remotely program the NJEX series systems at a press of a button.

Service & Support

This is nothing new at YZ Systems. Our on-line technical service support is available 365/24/7. Additionally, a factory trained field technician can be on-site within 24 hours in most cases. With the new Sentry4 software our on-line technical service support enters a new dimension of remote troubleshooting assistance.

Green System Operation

At YZ our systems are designed to minimize the impact on our environment without sacrificing safety for our communities. That's why our systems design minimizes the potential of odorant leakage, incorporates "closed-loop" purging sequences to allow odorant free maintenance, and does not require the flaring of the bulk storage tank during the direct fill process.

The Sentry4™, Windows™ based Odorization Software, provides a packaged solution for changing and reporting NJEX System operating conditions, in real-time. Sentry4 provides historical data downloads, all without the need to write macros or programs.



The QuickView report screen from Sentry4 provides a color coded snapshot of NJEX system operation.



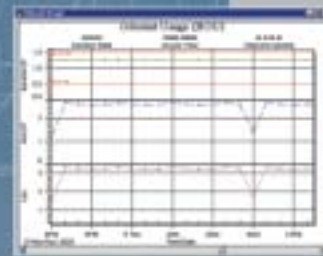
The Parameter File Editor allows quick review and modification of each NJEX system's operating parameters remotely.

A screenshot of the Parameter File Editor screen, displaying a table with columns for parameter names and values, and buttons for editing.

The Sentry4 Alarm Log allows instant identification of system alarms.

A screenshot of the Sentry4 Alarm Log screen, showing a list of alarm events with columns for time, alarm type, and status.

The Communications Monitor Screen provides automatic notification of dialinbound alarm reporting and scheduled system polling.



After downloading the NJEX system log, the operational history of each NJEX system can be graphically viewed without a trip to the field.

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