

YZ SYSTEMS

The Leading Edge



"The new N300 Series of Odorization Systems feature 2 / RS-485 comm ports for redundant SCADA, Telephone Radio or Serial data communication"

At one time or another we've all heard it...

We've heard, the cutting edge, pushing the envelope, and riding the technology curve.

Actually, It's funny how business gurus tend to re-explain the very thing that YZ has been doing for the last 51 years, delivering the Oil & Gas industry's most advanced Odorization and Sampling Systems.

Systems That Talk

With the New NJEX 300 Series of Odorization Systems, YZ is leading with several significant design improvements and technology enhancements.

One of the key features of the new NJEX 300 Systems are that they can be remotely communicated with via Sentry4 software and a telephone, radio or serial connection. The NJEX 300 Series Systems also work with SCADA using Modbus™ protocols. This new communication capability is not simply a data read, its a complete system access capability, right now, in real time.

Whether you communicate with the NJEX 300 Series Odorization Systems via SCADA or with the New Sentry4 Windows™ based Odorization Monitoring System, you can access live flow rate, pressure and pump displacements remotely.

Saving Time Through Communication

The added communication capability of the NJEX 300 Series Odorization Systems make it possible to save time.

Alarm Calls

Consider trips to the odorant station to check operation. With the ability to generate an alarm, the NJEX 300 System can tell you when it needs attention. It does this by generating an alarm and then a telephone call, or a data stream for SCADA systems, based on the values you choose, for a variety of operating parameters. Alarms can be generated from a wide variety of operating parameters such as changes in pump displacement, a low level in the bulk odorant storage tank and low battery conditions. Once set, the NJEX System will communicate an alarm as movement across these values as they occur saving time spent in a checkup trip to the field.

Making System Changes Remotely

No matter if you are in an office or at a remote site, if you have a comm link and the Sentry4 software, or SCADA access, resetting and editing system operating parameters remotely can also save time.

"...This new communication capability is not simply a data read, its a complete system access capability, right now, in real time."

Imagine your team has just concluded an odorant survey using the DTEX Odorant Detection System and found that new construction in the area has decreased the odorant level in the gas stream to low levels. It doesn't matter if the odorization site is local or remote, the survey team will have to stop the survey and drive to the site to reset the injection rate to a higher level. Consider this, what if you were the only person capable of

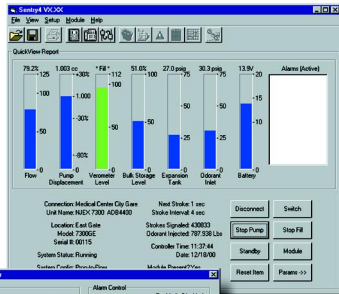
making that adjustment? You would have to drop your project and drive to the odorization station.

Today, that field trip is no longer required, whether you're in the office or in the field, if you have access to a comm link with Sentry4 or SCADA, you can make the change remotely to reset the injection rate.

Downloading Data

Let's take for example, your company prepares a Monthly Odorant Usage Report.

To generate this report, someone on the team is required to visit each odorization system in the gas distribution system. If you did not have an NJEX 200 Series Odorization System, a reading of some type of tank level gauge was required. And to accurately determine the true injection rate of odorant, an educated guess of the temperature variance for the odorant during the month was required. All of this was required before the odorant injected at the site in Lbs/MMCF could be calculated.



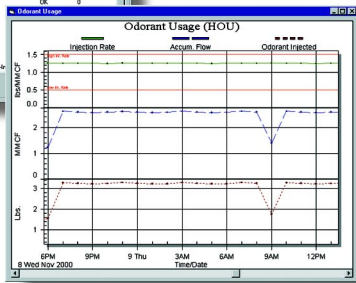
QuickView Report Screen

Parameter File Editor

Sentry4 Alarm Log

Communications Monitor Screen

Graphical View of Operational History



The DTEX Odorant Detection System simplifies odorant detection tests.

odorant injected. During normal operating conditions, as the flow rate in the pipeline changes, the odorant injected should mirror the flow rate change. However, the injection rate should remain relatively constant.

As a result the Sentry4 system allows you to determine if you are under or over-odorizing the flow stream.

The Continuing Generation

Since 1989, YZ has responded to the industry's needs in providing an odorization system specifically designed for odorant injection. These systems retain pumps, low powered microprocessors, odorant meters, and auditing software,...each specifically designed for odorization. And designed into an integrated "Total Systems" odorization package.

This "Total Systems" approach in 1989 was novel, but to YZ it was a natural extension of the company's 40 plus years experience designing sampling systems for the Oil & Gas industry. Combined with YZ's ability to build reliable positive-displacement pumps, the NJEX Odorization System quickly became the industry standard.

Each NJEX System electronic package retains certifications fro CSA and CENLEC, for use in Class I, Div. 1, Group C, D, Hazardous Locations

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For YZ Information Circle #XXX

Calculating the odorant used for the month not only took travel time but, if the odorization system did not compensate for odorant temperature, it took time picking a number, and then running the math.

Today, with the NJEX 300 System, that's no longer the case. Whether you use the Sentry4 Software System or SCADA, you can access the system remotely to obtain the amount of odorant injected.

Using Sentry4, the Odorant Usage Report will collect the temperature compensated value from the NJEX system, and generate a report. With SCADA systems and operating software, such as Wonderware™, written macros can collect the data and calculate the value required for reporting.

Either way you do it, you get the data you need, without leaving the office.

The Big Picture, System Performance

Tying these communication elements into an understandable gauge of the odorization system performance is the ability of the Sentry4 Software system to prepare an Odorant Usage Graph, featured above.

This Odorant Usage Graph overlays three important operating system data sets; injection rate, flow in the pipeline and



The Natural Gas version DynaPak 2010 series DirectMount Sampling System.

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