



V=IR: The Neal Systems Current



A Day with Neal Systems Service Team

Pete Hutwelker walks us through the operations of a Candle Flare System. Our service and solutions team can walk you through any of our applications and processes to help choose the best solution for your application.

[Request A Walk-Through](#)

Announcements

NSI has two new partners that we represent!



New Representation Partnership

Alta Solutions

Alta provides Vibration Monitoring and API-670 Machinery Monitoring systems for rotary equipment such as turbines, pumps, compressors, blowers, fans, and motors.



New Distribution Partnership

Automation Service

Providing new and rebuilt solutions for a variety of manufacturer's transmitters, valves, and pneumatic equipment, as well as on-site facility recycling solutions for the same equipment.

[Read More](#)



Introducing Virtual Training!

The Neal Systems' **IMPACT Center** (**I**: Instrumentation **M**: Measurement **P**: Process **A**: Automation **C**: Control **T**: Training **Center**) will be kicking off its initial training schedule virtually! Our team of expert engineers and service technicians will be providing 30-minutes of training followed by an interactive discussion.

Our trainings offer unique and practical knowledge on a variety of topics that are guaranteed to impact your day-to-day operations.

[Learn More](#)

Product and Solution News



Life Safety System (LSS)

We recently upgraded an industrial facility's Life Safety System (LSS) from Draeger Polytron XP Tox and Flame 2300 hardware to Draeger Polytron 8000 and Flame 5000. At the same time, we removed the 3 associated PLC's and replaced them with Draeger's new Regard 7000 rack-based system. This system is integrated... [Read more here!](#)



MAKING YOUR PROCESS SAFER AND MORE EFFICIENT

The Draeger Flame 5000 detects characteristic properties of flames on the basis of a live video signal. By using Draeger's sophisticated digital signal processing and software algorithmics – false alarms can... [Read more here!](#)



Our service team is taking the lead on ensuring our customers applications are running smoothly!

Calibrations, configurations and site surveys are just a few of the offerings available through our service and systems group... [View our other offerings here!](#)

Why does improved Pressure Transmitter accuracy matter? Two Main Reasons



Pressure Transmitter Performance Report

Calculations based on published performance specifications by Schneider-Electric, updated June 23, 2020.

Application Data		Results	
Pressure Format	Gauge	Upper Range Limit (URL)	300 PSI
Units	PSI	Min Span (URV - LRV)	3.75 PSI
Upper Range Value (URV)	200	Transmitter Turndown	1.508
Lower Range Value (LRV)	1	Reading Accuracy Down To	60.000 PSI
Point of Interest (POI)	20	FoxCal	FoxCal On
Maximum Process Pressure	250	Ref. Error at URV	0.05000 PSI
Transmitter Series	IGP50S	Ref. Error at LRV	0.01500 PSI
Body Style	Biplanar or Low-Profile	Ref. Error at POI	0.01500 PSI
Transmitter Range	D	Installed +/- Error at URV	0.23154 PSI
Comment	Acceptable	Installed +/- Error at LRV	0.22658 PSI
		Installed +/- Error at POI	0.22658 PSI
		Max Working Pressure	3626 PSI
		Proof Pressure	14500 PSI

Foxboro's new S series transmitter has a drastically improved accuracy (sometimes 400:1 turndown) over traditional, more costly transmitters – and that allows you to do two things: Reduce plant inventory (because of vastly increased ranges) and improve process accuracy (especially on differential pressure flow applications). Today we are focusing on the latter. Here are a couple application that could benefit from that increased accuracy:

1. Water Totalization for Regulatory Reporting: We can eliminate the need for a High and Low DP transmitter – in most cases, Foxboro can use just one range to cover the entire range of flow, and STILL give significantly better flow calculation accuracy than with the High/Low transmitters!

2. WAGES Measurement for Billing: If you measure pressure or flow for campus building billing of water, air, gas, or steam (the W, A, G, and S of WAGES), you know that usage varies quite a bit each day. Higher accuracy means a more accurate calculation of billing.

We're finding new applications every week – check out our handy dandy calculator that lets you see just how accurate the transmitter would be for your calculation, and even convert that into example units (like gallons) that you might use to really see how this could help! Ask one of our engineers to help walk you through the spreadsheet to determine what might work best for your plant's applications!

[Calculate Here](#)

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