

PRV Monitoring Reduces Emissions and Plant Energy Costs

RESULTS

- Real-time notification on pressure relief valve events
- Reduction in compliance costs (tens of thousands of dollars annually) and loss of ammonia

APPLICATION

Pressure Relief Valves

CUSTOMER

Ammonia manufacturer in North America

CHALLENGE

The plant had numerous undetected relief events across multiple PRV types – both direct spring and pilot operated pressure relief valves. Most of their relief valves go into a manifold system and they had limited visibility to events and which PRV actually lifted.

With new requirements to report any release of ammonia above 100 pounds to the EPA, the customer was looking for a way to gain real-time notification of relief events.

SOLUTION

The Emerson team recommended a multi-pronged hardware and software solution to provide real-time insight. This offering included acoustic transmitters on direct spring valves, differential pressure transmitters on pilot operated valves and the PlantWeb™ Insight Pressure Relief App. Emerson provided a turnkey solution including all startup services to ensure a smooth deployment with no additional work required by the customer.

RESOURCES

- PRV Monitoring Application Guide
- PRV Monitoring Demo Video



A major ammonia manufacturer now utilizes real-time PRV monitoring to identify relief events, reduce compliance costs and minimize product loss.



Emerson Automation Solutions

Americas


T +1 800 558 5853
T +1 972 548 3574

 webadmin.regulators@emerson.com

 Emerson.com

Europe

T +39 051 419 0611

 [Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)

Asia Pacific

T +65 6777 8211

 [LinkedIn.com/company/emerson-automation-solutions](https://www.linkedin.com/company/emerson-automation-solutions)

 [Twitter.com/emr_automation](https://twitter.com/emr_automation)

Middle East / Africa

T +971 4811 8100