

# FISHER IN CONTROL

## CORPORATE NEWS

### Emerson completes integration of Fisher India acquisition

*The Chennai facility enhances capabilities to serve customers and meet process control technology needs in India, Middle East and Africa*

Emerson Process Management, a business of global technology provider Emerson announced the completion of the integration of the former Fisher Sanmar Limited joint venture to further strengthen its growth plan for India.

The former joint venture has been formally renamed Emerson Process Management Chennai Pvt Ltd. The acquisition of the Fisher Sanmar joint venture includes the transfer of more than 275 employees and the ownership of manufacturing facilities at Karapakkam, Chennai.

The acquisition is part of Emerson Process Management's "One India Strategy" that integrates the different Emerson entities to address the complete process automation needs of industrial customers in India through a single sales and support channel. Customers benefit from the breadth and depth of Emerson's process automation technology offerings that support a wide range of industrial applications, ranging from electricity-generating power plants to food and beverage makers, to pharmaceutical manufacturers and oil, gas and petrochemical facilities.

The acquisition enhances Emerson Process Management's ability to support large projects in India, which have doubled in demand and opportunity over the last two years. It also enables the Indian operation of Emerson Process Management to export products, systems and services to high growth markets such as the Middle East and Africa.

B. Venkataramani, general manager of Emerson Process Management Chennai, said, "The integration of the Fisher Sanmar business is a critical part of our strategy to consolidate our business into a single window for the benefit of our clients. Energy industries in the Middle East and Africa are expected to continue to invest in new production as well as downstream processing, and a lot of the engineering is now being done in India. Our Chennai plant is well positioned to supply Fisher control valves for these opportunities."

Completion of the integration of the former Fisher Sanmar Ltd joint venture concludes a highly productive 18-year presence in India. Emerson plans to continue this journey through growth in sales, providing value-added services and developing critical technology innovations for its process automation customers in India.

Currently, Emerson Process Management India employs over 2,500 employees across the country.

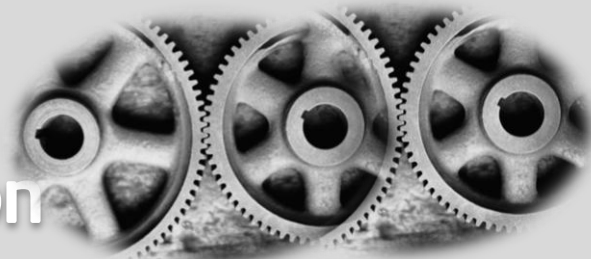


## Emerson Process Management named Edison Awards finalist in two categories

*The Emerson Innovation Center and Fisher® Control-Disk™ rotary valve will be recognized at Edison Awards Gala on April 5 in New York*

# EDISON AWARD

excellence in innovation



The Emerson Innovation Center – Fisher Technology and the Fisher Control-Disk™ rotary valve have been named finalists for the internationally known 2011 Edison Best New Product Awards™. The Edison Awards symbolize the persistence and excellence personified by Thomas Alva Edison, inspiring America's drive to remain in the forefront of innovation, creativity and ingenuity in the global economy.

The Emerson Innovation Center has been recognized in the category of Living, Working and Learning Environments. Opened in May 2010, the Emerson Innovation Center is a highly specialized engineering testing facility and flow lab designed to help customers tackle the toughest challenges facing process manufacturing and energy industries. The flow lab enables valves to be tested in real-world plant conditions to ensure reliability, environmental compliance and safety before being installed at a customer site.

The Fisher Control-Disk rotary valve is a finalist in the Applied Technology category. The Control-Disk offers excellent throttling performance and is ideal for applications that involve fast processes and varying pressure drops, such as in the chemical, pulp and paper, and metals and mining industries. An equal percentage flow characteristic provides an improved throttling range comparable to that of a segmented ball valve. This allows control closer to the target set point, regardless of process disturbances, resulting in a reduction in process variability.

"This year's Awards recognize a broad array of innovations including far-reaching products, services and technologies that impact daily life," said Edison Awards Steering Committee chair Sarah Miller Caldicott, a great grandniece of Thomas Edison. "The Awards applaud the forward-thinking innovations for which Thomas Edison remains internationally admired. It's exciting to see companies like Emerson continuing his legacy of challenging conventional thinking."

The ballot of nominees for the Edison Best New Product Awards is judged by roughly 2,000 members of the not-for-profit Marketing Executives Networking Group (MENG), an organization comprising America's top marketing professionals and academics. In a comprehensive peer-review process, the nominees are judged on Marketplace Innovation, Marketplace Success, Technological Innovation, Market Structure Innovation, Societal Impact and Design Innovation.

"Emerson is honored to be recognized for these innovation awards because it is so clearly aligned with our commitment to help our customers solve the toughest problems, while helping them run smarter plants that improve production quality, lower operations and maintenance costs, and enhance environmental performance and worker safety," said Terry Buzbee, president Emerson Process Management, Fisher division.

For more information about the Edison Award finalists, please visit [www.edisonawards.com](http://www.edisonawards.com)

## Fisher® control technologies and industry expertise for the nuclear industry

For more than 35 years, Emerson – the world’s largest control valve and pressure instrumentation manufacturer – has supported nuclear facilities worldwide with Fisher nuclear-certified valves and associated services and Rosemount nuclear-certified pressure transmitters and accessories. Our valves and transmitters are installed in a large majority of the world’s nuclear facilities, and are supported globally by a dedicated Emerson Process Management staff with decades of cumulative nuclear industry experience.

Fisher control valves are designed to help maintain reactor coolant temperature and provide easier maintenance and longer service life. Fisher valves also are designed and tested to perform at high seismic loads related to earthquakes. This is important for safe and reliable operation of a nuclear plant. Emerson performs seismic testing on its wide range of nuclear valves at the new Emerson Innovation Center, Fisher Technology facility in Marshalltown, Iowa (USA).

Emerson has a long-term agreement with Westinghouse Electric Company, a global leader in nuclear plant products and technologies, to provide the key control system technology for the automation of nuclear power plants that utilize the Westinghouse AP1000® design and other plant designs.

The AP1000 is fast becoming the new nuclear plant technology of choice throughout the world. In the United States, the AP1000 is the selected technology for more than half of the announced plants.

Emerson Process Management also provides advanced machinery health monitoring designed to specifically work with the Westinghouse AP1000.

Emerson is one of the only digital automation suppliers with a complete offering of technologies, services and dedicated staff for the global nuclear industry. With interest in nuclear power generation on the rise, Emerson is applying its decades of experience and technology expertise to help ensure the efficient, reliable and safe operation of next-generation nuclear facilities around the world.



## New Fisher pinch valve now allows automated control of low volume, clean and sterile liquids

Emerson Process Management introduces its Baumann™ 85000 sanitary pinch valve for low flow rate, low pressure control of sterile liquids within both the biotechnical and pharmaceutical industries. Providing fully automatic operation, the 85000 eliminates the inefficiencies and poor control given by the manually-operated pinch valves typically used in these high value applications.

Compact and lightweight in design, the Baumann 85000 features three major components: a tube shell body that accommodates 3/4" pharmaceutical grade tubing; a linear spring-and-diaphragm actuator that responds accurately to controller input; and a Fisher FIELDVUE™ digital valve controller that yields a high level of operating performance as it maintains valve reliability.

The 85000 pinch valve with the FIELDVUE controller provides an installed equal percentage flow characteristic for control accuracy. The digital controller also enables valve diagnostics that monitor the operating health of the valve assembly, providing immediate feedback to a plant host system should maintenance be required. When incorporated within the PlantWeb™ digital plant architecture or other process control systems, the FIELDVUE controller-equipped 85000 facilitates and enhances per-batch and overall process record keeping.

The tube shell design of the 85000 allows easy changing out of the process tubing. The valve plunger does not contact the process fluid and gives a shutoff rating equal to ASME/FCI 70-2, Class VI. The epoxy-coated actuator with its stainless steel fasteners offers maximum corrosion resistance.



**The next nuclear control valve package you  
receive might surprise you.**

**What? You don't like surprises?**



We didn't think so. That's why we design and build Fisher® control valves to perform to your specifications. Just like you want them to, without surprises. With over 40 years in the nuclear industry and installed units in over 90% of the world's nuclear facilities, you can rest assured that Fisher valves will give you the reliable performance you require. Day after day, for the life of your plant - no surprises. Learn more by visiting [www.Fisher.com/nucNEI](http://www.Fisher.com/nucNEI)



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**EMERSON. CONSIDER IT SOLVED.®**

# Emerson enhances Fisher control valve sizing and selection software

*Fisher Specification Manager software update adds flexibility and speed*

Emerson Process Management has released an updated version of its Fisher Specification Manager software, enhancing ease of use and adding flexibility to this widely-utilized valve selection tool.

Designed for engineers who select and specify control valves, the Fisher Specification Manager software package features a clear, sequential process to such tasks as building ISA specification sheets, predicting valve operating noise levels, and exporting dimensional data for Fisher and Baumann™ control valves.

Enhancements to the Fisher Valve Specification Manager software include the addition of a port diameter attribute to the trim details grid as well as updated product data and literature. The newly revised Fisher IEC valve sizing engine now includes inlet temperature for liquid sizing, while faster download and installation of software changes are now possible thanks to a new quick update feature within the Help menu. A “What’s New” menu option allows one-click access to the latest software changes.

The latest version of the Fisher Valve Specification Manager software can be downloaded from [www.FisherSpecificationManager.com](http://www.FisherSpecificationManager.com). The updated software, which is compatible with Windows XP, Windows Vista and Windows 7 operating systems, is also available on a CD from local business partners of Emerson Process Management.

## Fisher® Specification Manager

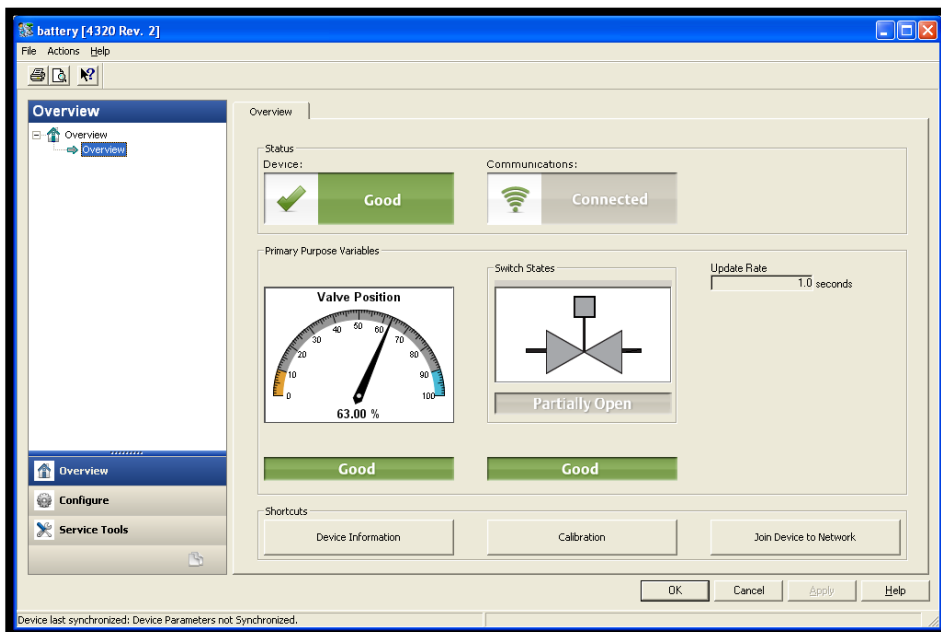



# Enhanced features of the Fisher 4300 Wireless Position Monitor

Potential for new process/ safety/ remote application with these new features will give our customer a sense of security and smoother plant operation.

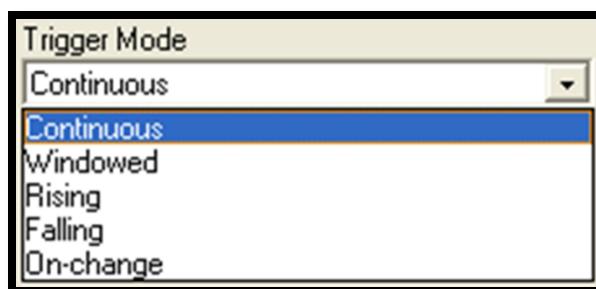
## 1) Faster update rate

One second update is possible now with the latest 4300 revision-2 and the latest release firmware of the 1420 gateway.



## 2) Report by Exception

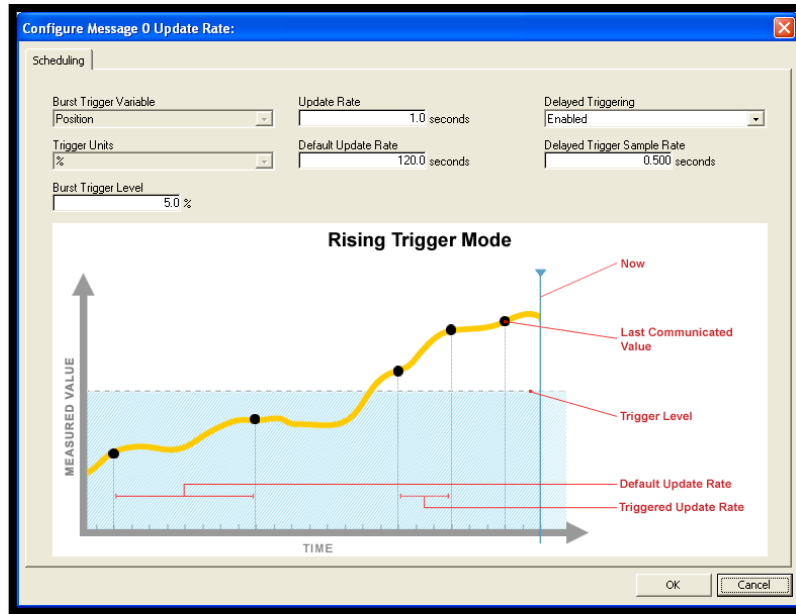
Allows data to be published earlier than the **Default Update Rate** when the trigger condition is met. Below diagram shows a selection of the Trigger Mode.



Trigger Mode	Burst Message is:-
Continuous	Published continuously at the Update Rate
Windowed	Triggered when the reading deviates more than the specified trigger threshold
Rising	Triggered when the value rises above the specified trigger threshold
Falling	Triggered when the value falls below the specified trigger threshold
On-Change	Triggered when any value in the message changes

## ... continue 4300 Wireless Position Monitor

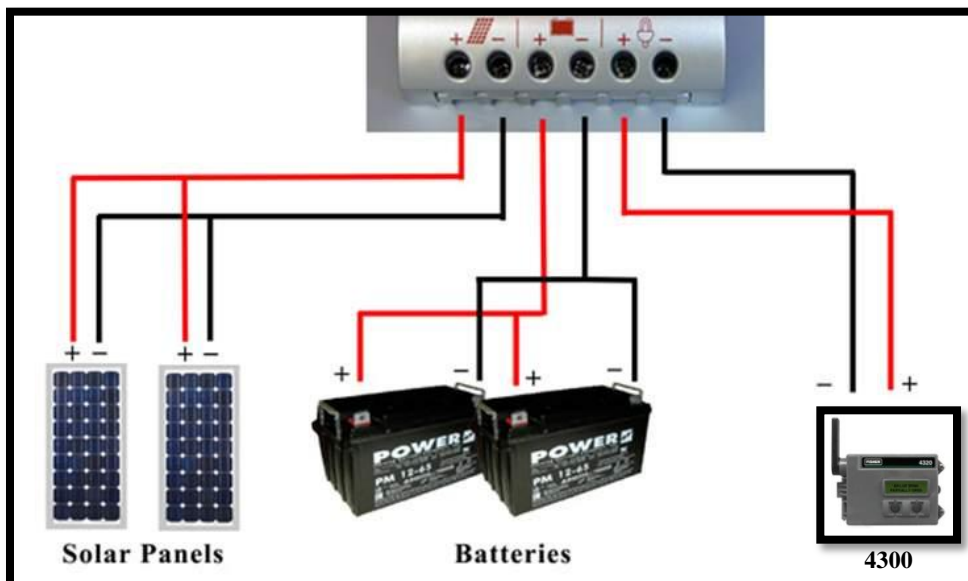
Additionally, the **Delayed Trigger Sample Rate** parameter allows the device to sample the data more frequent. It enables the device to catch a brief change (for eg. a change from 0% to 100% and then from 100% back to original value, 0%, within short interval) in the process variable. The diagram below shows the example of the Rising Trigger Mode.



### 3) Local power options

If there is available DC 24 volts in the field, there is no more worry about power module life. The sampling rate is fixed at 50 msec. The other option is to harness solar energy.

## Charge Controller



## Fisher Protected Inside Seat extends valve seat lifespan in Boiler Feedwater application

### RESULTS

- Fisher protected inside seat technology addressed valve seat leakage problem due to plug-tip erosion caused by entrained particulates.
- Cavitrol™ III trim with protected inside seat helped extend the seat life of the valve in this demanding application.
- Enhanced valve performance reduced maintenance and plant operation disruptions.

### APPLICATION

Boiler feedwater control.

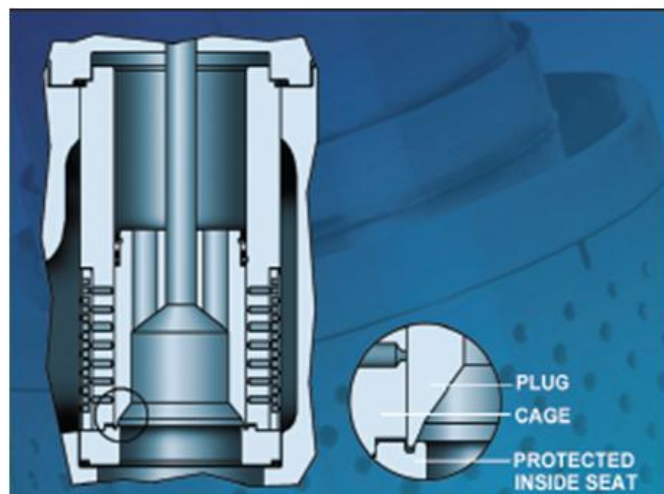
### CUSTOMER

Liquefied Natural Gas (LNG) plant in Malaysia.

### CHALLENGE

The boiler feedwater regulator valve plays a critical role in providing feedwater to the boiler during normal operation when the boiler is under pressure. Flow restriction in the valve passages can cause problems in maintaining the boiler water level or cause the loss of treated water due to boiler overflow.

The valve used in this plant was experiencing flow problems. When it was dismantled for inspection, plant personnel found erosion damage to the seating surfaces of the plug. Further investigation showed evidence of debris and particulates being present in the boiler feedwater. Because the flow problem was requiring frequent valve maintenance and repair, plant personnel contacted Transwater, the Emerson Local Business Partner in Malaysia, to help solve the problem.



*The protected inside seat for control valves with Cavitrol® III Trim addresses seat leakage issues due to plug-tip erosion.*



## Emerson CEO Dave Farr visits China facility

His third trip to date, David N. Farr, Chairman and CEO of Emerson, visited the Emerson campus in Tianjin China on April 20<sup>th</sup>, 2011. Mr Farr was impressed with he saw - the manufacturing facility, the advanced Flow Laboratory, the Technical Center and Service Center & Fast Parts.



# It's your responsibility to diagnose a control valve. Wouldn't you rather pack light?



Diagnosing a control valve in the field can be a daunting task. Fortunately, Emerson ValveLink™ Mobile software makes it easy. It goes where you go - no laptop required. Installed on your 475 or 375 Field Communicator or Bluetooth® enabled smartphone, you can take it into hazardous areas where your FIELDVUE™ digital valve controller is located. Using the touchscreen icons, you can set up, commission, and troubleshoot your control valve assembly with ease and mobility never experienced before. No special training is required. Reduce your maintenance time and improve your plant performance with the touch of a button. Visit [www.Fisher.com/VLM](http://www.Fisher.com/VLM) to learn more.



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## 2011 Fisher Asia-Pacific FIELDVUE School

The 2011 FIELDVUE Manager School saw an unprecedented number of participation from our AP Local Business Partners. There were a total of more than 40 attendees. Unlike past FIELDVUE schools, there were no recreational activities. The attendees had 4 full days of mind-boggling sessions which covered topics like new product introduction, hands-on sessions and latest and greatest in wireless technology from our distinguished overseas guest, Dan Carlson from Marshalltown, USA.

What was uniquely different in this year's school was the presence of TopWorx®, our sister division, which specializes in the manufacture of ON-OFF valve controls, position sensing and field networking to give our attendees an all-round solution selling package that will meet any customer's application needs.

This year, FIELDVUE instrument sales crossed the 50,000 unit mark for the first time in the history of AP FIELDVUE sales. Indeed, this would not have been possible if not for the dedication of these FIELDVUE Managers who have been tirelessly preaching the predictive diagnostic capabilities of FIELDVUE instrumentation that has come to be known as the de-facto standard for the process control industry.



## Special entrepreneur report: Star Controls 15<sup>th</sup> anniversary

September 23, 2011 – Star Controls Engineering, a business partner (LBP) of Fisher Valves in China, celebrated its 15<sup>th</sup> anniversary. It must have a bittersweet adventure on hindsight. In this issue, *Fisher In Control* looks at the amazing journey of the company, how they made it and the man behind it all – Patrick Lim.

It's been often said that the course of entrepreneurship is never easy. Often times, it's the road less travelled, fraught with unimaginable challenges and circumstances unforeseen, but it is also an unusual experience of fulfillment and achievement.



Patrick Lim, the man at the helm



The 1980s to 1990s was a time of phenomenal growth in China, presenting enormous opportunities for those who dare and were eager. It was during this time that Patrick Lim, the founder CEO of Star Controls, decided to take the leap of faith to start the company.

Star Controls Engineering was set up in 1996 as the representative for Fisher Valves for Central China. With two or three years of prior experience as a Chemical Industry Application Manager and then China Sales Manager for Fisher Controls, Patrick made an offer to become a Fisher representative for the region. The beginning wasn't exactly smooth going. Staffed with only six employees, the small and young team had to knock on doors to introduce the brand and products to as many people as possible. The staff had to work seven days a week, up to 20 hours a day.



The company grew along with Emerson, implementing transformational and organization changes to suit growing market demands. More offices were opened and market segmentation were practised to better serve the customers. In later years, in order to ensure that its staff are technically competent and knowledgeable, the Star Academy was implemented to put new employees on a four year training stint before they could join the sales force.

Fifteen years later, Star Controls is now a US\$70million company employing more than 150 staff in several cities in China. Through it all, one of the key factors of sustainable growth is the emphasis on customer care and people development which takes care of the two fundamental pillars of business management – customers and people. This is further extended to a charitable programme mooted some four years ago in which education scholarships were given to needy students, both in Singapore and China. Yearly events to old age homes were also organized and staff were encouraged to give back to the community.

Today, as the company grows and with an ever changing environment, the biggest challenge is for its people to accept and adapt to changes. Star Controls manages this by ensuring that corporate growth and changes eventually benefit the individual.

Patrick Lim has this to say on their 15<sup>th</sup> anniversary, "I am thankful to my customers for their years of support, to Fisher for their great products and most of all, our people for their unwavering dedication and commitment to the company. It's been a challenging but uniquely and amazing 15 years. Let us look forward to more anniversary years to come!"



Well done and happy birthday Star Controls!

## Emerson holds press conference on Fisher India acquisition



B Venkataramani - Executive Director,  
Fisher India

It began with the opening of the Chinese market and now, upcoming and rising on the horizon is the other huge, economic growth engine of the world – India. With Asia, which includes India, contributing some 23% of US\$6 billion to the Emerson portfolio of businesses, Emerson's foray into the Indian market is nothing short of surprising. This was made possible with the recent acquisition of Fisher Sanmar which was officially announced in a recent press conference on July 8, 2011 in Chennai. After the press conference, there was a tour of the facility.

Prior to the acquisition, Emerson already owned the Fisher Engineering Centre (FCEC), also in Chennai. The acquisition integrates and completes the Emerson's One India strategic move. The newly acquired manufacturing plant is near to the FCEC where high-end valve designing are also conducted.

Each Emerson's manufacturing site serves a specific purpose and in the case of Fisher India, it will focus on supporting new and upgrade projects for high growth Indian industries.

Sabee Mitra, president of Emerson Process Management Asia-Pacific, said, "This investment and the creation of Emerson Process Management Chennai demonstrates our commitment to growth in Chennai and India as a whole. Employees in our Chennai facility will benefit from our One India strategy as much as our customers will".

India, here we come!



Left to Right:  
Amit Paithankar, - Vice President, Sales, Emerson Process Management, India  
Sabee Mitra - President, Emerson Process Management Asia Pacific  
Sunil Khanna, Managing Director, Emerson Process Management, India



## Focus on customers: Performance Without Compromise

As Emerson continues with its slew of customer-centric events, two of the Asia Pacific Performance Without Compromise events carried out in the last quarter were in India and Thailand on July 8 and Aug 26, 2011 respectively.

Emerson bonds with its customers through these events and to know more about each customer's specific need in order to serve them better.



PWoC in India



PWoC in Thailand

# Did frogs predict earthquakes?

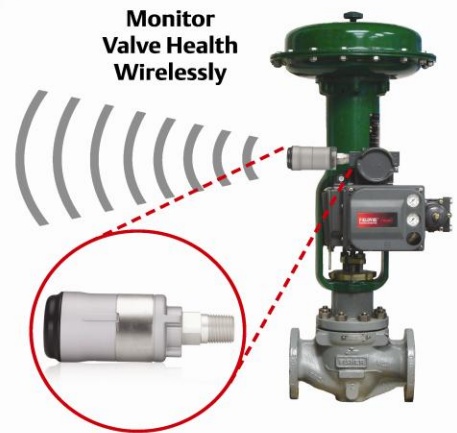


The belief that animals can predict earthquakes has been around for centuries.

Early predictions of events can be invaluable if humans could interpret such behaviour better.

Likewise, to predict valve failures, the THUM™ Adapter enables stranded diagnostic information from FIELDVUE® instruments to be retrieved wirelessly.

Monitor  
Valve Health  
Wirelessly



Smart Wireless THUM™ Adapter mounted on a FIELDVUE® DVC6000 Digital Valve Controller

