

FIELDVUE® digital valve controllers for safety-related nuclear applications

Next generation technology, available today!

Fisher® FIELDVUE® DVC6000 Series digital valve controllers have been qualified for safety applications according to Electric Power Research Institute (EPRI) and Nuclear Regulatory Commission (NRC) guidance on evaluating commercial grade digital equipment. What does that mean for you? You can now use FIELDVUE DVCs in critical applications within your nuclear plant.

The EPRI digital component evaluation process is defined in EPRI TR-106439, *Guideline on Evaluation and Acceptance of Commercial Grade Digital Equipment for Nuclear Safety Applications*, and is endorsed in the NRC's Standard Review Plan NUREG-0800.

Bringing you these advantages

Improved Plant Safety and Reliability - FIELDVUE technology is proven in over one-half million units worldwide—making it number one in use and helping assure you of reliable operation year after year. As the most advanced digital valve controllers available today, FIELDVUE DVCs are an ideal replacement for older, soon-to-be obsolete equipment.

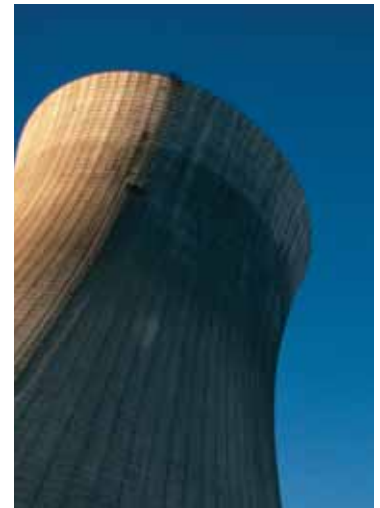
For harsh environments, like inside containment, FIELDVUE DVCs with remote-mount option allow locating the electronics hundreds of feet away from the valve assembly. The impact of temperature, radiation, and vibration can be reduced.

Ruggedness is a requirement for nuclear plants, and FIELDVUE DVCs meet the challenge with their extreme temperature elastomer package and radiation resistance—tested to more than 11,000 rads total integrated dose.

Improved Plant Performance - If you want optimized process performance in your plant, use FIELDVUE DVCs. They're designed to help valves provide unmatched, long-term control.

FIELDVUE DVCs provide highly accurate positioning, as well as high-speed and stable valve response. This translates into much tighter process control, reducing maintenance problems in the plant, and leading to higher efficiencies and output.

You can customize the control valve's flow characteristic to better meet process demands simply by adjusting the FIELDVUE DVC custom characterization.



Fisher FIELDVUE DVC6000 Series digital valve controllers are HART® communicating, microprocessor-based, current-to-pneumatic instruments. They can be set up and commissioned in a fraction of the time required by their analog predecessors. Fewer moving parts in FIELDVUE DVCs means increased reliability. FIELDVUE DVCs power PlantWeb by monitoring device health and predicting problems.

The high output capacity of FIELDVUE DVCs can mean simplified schematics, as you may be able to eliminate such devices as boosters and quick releases.

Reduced Unnecessary Maintenance - Transform your preventative maintenance program into a condition-based predictive maintenance program using FIELDVUE DVCs and AMS ValveLink® software. You can avoid unplanned shutdowns, eliminate unnecessary maintenance work, keep technicians out of harm's way, and get an accurate picture of valve performance.

FIELDVUE DVCs and AMS ValveLink software combine to provide on-line, in-service Performance Diagnostics via PlantWeb® digital plant architecture. PD analyzes valve and actuator performance while the valve remains in service. It provides advance notice of developing performance issues with FIELDVUE DVCs, the control valve assembly and/or the process.



Get the FIELDVUE Advantage



To improve plant and equipment reliability while improving process control performance and cutting maintenance costs, it's time to take your plant digital with FIELDVUE DVC6000 Series digital valve controllers!

Call your local Emerson sales office or sales location to discuss FIELDVUE DVCs for safety-related nuclear applications such as feedwater regulation and deaerator level control.

Specification Summary

EMC (tested in accordance with the following)

Low frequency conducted emissions: Not Applicable
High frequency conducted emissions: IEC 61000-6-4
Radiated magnetic field emissions: None
Radiated electric field emissions: EN 55011 and IEC 61326
Low frequency conducted susceptibility: Not Applicable
High frequency conducted susceptibility: IEC 61326 and IEC 61000-4-6
Radiated magnetic field susceptibility: IEC 61326 and IEC 1000-4-8
Radiated electromagnetic field susceptibility: IEC 61326 and IEC 61000-4-3
Surge withstand: IEC 61326-1 and IEC 61000-4-5
Electrical fast transient: IEC 61326-1 and IEC 61000-4-4
Electrostatic discharge: IEC 61326-1 and IEC 61000-4-2

EMC testing meets the intent of the Regulatory Guide 1.180, Revision 1 and EPRI TR-102323, Revision 3.

Radiation Exposure

Valve mount configuration tested to 1.150E4 rads.
Remote mount configuration tested to 2.624E6 rads.

Seismic

Tested to the requirements of

- USNRC Regulatory Guide 1.100
- IEEE 344-1987

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NORTH AMERICA

Emerson Process Management
Marshalltown, Iowa 50158 USA
T 1 (641) 754-3011
F 1 (641) 754-2830
www.EmersonProcess.com/Fisher

LATIN AMERICA

Emerson Process Management
Sorocaba, Sao Paulo 18087 Brazil
T +(55)(15)238-3788
F +(55)(15)228-3300
www.EmersonProcess.com/Fisher

EUROPE

Emerson Process Management
Cernay 68700 France
T +(33) (0)3 89 37 64 00
F +(33) (0)3 89 37 65 18
www.EmersonProcess.com/Fisher

MIDDLE EAST & AFRICA

Emerson FZE
Dubai, United Arab Emirates
T +971 4 883 5235
F +971 4 883 5312
www.EmersonProcess.com/Fisher

ASIA PACIFIC

Emerson Process Management
Singapore 128461 Singapore
T +(65) 6777 8211
F +(65) 6777 0947
www.EmersonProcess.com/Fisher

