

Replacement of Fisher™ 4200 Electronic Position Monitor with Fisher FIELDVUE™ 4400 Position Transmitter

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Figure 1. 4400 Position Transmitter

Management of Change

Management of Change (MOC) is a procedure used to proactively manage changes that have the potential to impact safety or the process within a plant. Evaluating new techniques for improving MOC approval procedures can have an impact on plant efficiency. Historically, upgrading obsolete products or replacing existing process control equipment had been delayed or abandoned due to the extensive paperwork involved in completing a complex MOC approval sheet. Displayed in the following sections are design comparisons between the 4200 position transmitter and the 4400 position transmitter.

Background

The 4400 is an intelligent digital communicating FIELDVUE instrument that offers enhanced value through additional features and functions compared to traditional position transmitters or limit switches. Unlike the 4200, which lacks temperature compensation leading to potential signal drift and relies on linkages for position feedback, the 4400 employs a linkageless, non-contact feedback design and integrates digital communications for remote visibility. This reduces the need for field visits and addresses the diagnostic limitations present in the traditional 4200 design.

To convert from 4200 Series 4 to 20 mA position transmitters, or other 4 to 20 mA position transmitter, use the same wiring connections as for the 4400.

- The 4400 provides for calibration without additional tools, using pushbuttons under the cover.
- If system supports HART®, it can now use HART for diagnostics and proactive maintenance practices.

This MOC Guide is not intended to be used as a stand-alone document. It must be used with the 4400 Digital Position Transmitter Instruction Manual ([D104738X012](#)).

Question and Answer Checklist

1. Q: Does the proposed modification cause any changes to the piping and instrumentation diagram (P&ID)?

A: No, with respect to the 4200, or other 4 to 20 mA position transmitter.

2. Q: Can I simply replace installed limit switches with the 4400?

A: No. The 4400 requires 4 to 20 mA wiring to power the electronics. Existing limit switch wiring can be used with a 4 to 20 mA signal. For additional information see the Switch Box Retrofits, Fisher FIELDVUE 4400 Digital Position Transmitter IM Supplement ([D104787X012](#)).

3. Q: Does the proposed modification change process chemistry, technology, or operating and control philosophies?

A: No.

- 4. Q:** Have the codes and standards to which the new equipment has been designed changed?
- A:** Maybe. The 4400 includes both explosion-proof and intrinsically safe certification for use in Zone 0, Class 1 Division 1 environments. The instrument being replaced may have only had one of the two certifications.
- 5. Q:** Does the proposed modification change the Hazardous Electrical Area classification?
- A:** Maybe. The intrinsic safety parameters and T-Codes may be different.
- 6. Q:** Does the proposed modification introduce new equipment that needs to be operated and has a new operations list been stated?
- A:** Yes, when using the limit switches. HART communication tools like AMS Trex, EDDL or FDI files with asset management software is required to set the position for the switches action.
- 7. Q:** Does the proposed modification introduce new equipment items that require spare parts, training manuals, maintenance procedures or training to teach the maintenance department how to maintain them?
- A:** Yes, for training and maintenance see the 4400 instruction manual ([D104738X012](#)).
- 8. Q:** Where do I find mounting kits??
- A:** The 4400 uses the same mounting kits as the DVC7K, DPC2K, DVC6200, and DVC2000 FIELDVUE instruments. Consult your [Emerson sales office](#) for mounting kit information.
- 9. Q:** Can the 4400 be used in long stroke applications (> 8 inches)?
- A:** Yes.



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