

# Supplement to HART® Communicating Fisher® FIELDVUE® DVC5000 (Obsolete Product) and DVC6000 Series Digital Valve Controller Instruction Manuals

## Hot Swap Procedure

The Hot Swap procedure allows you to input the configuration of one HART® communicating Fisher® FIELDVUE® DVC5000 or DVC6000 digital valve controller into another HART communicating DVC5000 or DVC6000 digital valve controller. This procedure can be used when a situation occurs that requires the partial or complete replacement of a digital valve controller.

### Note

A digital valve controller must be replaced with the same product Series, and the same firmware version. For example, a DVC6000 digital valve controller, firmware 6, must be “swapped” with another DVC6000 digital valve controller, firmware 6.

### Note

This procedure requires the use of a 275 HART Communicator or 375 Field Communicator.

### To save the digital valve controller configuration after set up and calibration:

1. Go to the on-line menu.

### Note

The touch screen display of the 375 Field Communicator allows you to select and enter text by touching the window.

Tap the window once to select a menu item or to activate a control. Double-tap to access the various options associated with the menu item.

## CAUTION

The touch screen should be contacted by blunt items only. The preferred item is the stylus that is included with the 375 Field Communicator. The use of a sharp instrument can cause damage to the touch screen interface.

### Note

If using a 275 HART Communicator selections are made using the right arrow key.

2. Select **Save**. The Field Communicator will prompt you for a save location. You can save to the Internal Flash, the Configuration Expansion Module within the handheld, or to the removable Expansion Module (EM) that snaps into the Expansion Port on the side of the 375 Field Communicator.



**Note**

If using a 275 HART Communicator, you can save either to the Module or DataPac. The Module is memory within the HART Communicator, the DataPac is an additional memory card that is connected to the HART Communicator.

- Once the location is has been selected, select **Save** again. All configuration data will be saved.

**To send configuration data to a new digital valve controller:**

- From the off-line menu, select **Saved Configurations**.
- Select the location of the Saved Configuration.
- Select the desired saved configuration to open the menu selection.
- Select **Edit**, and then, **Mark All**. This will mark all configuration data to be sent to the new digital valve controller. (including travel calibration).
- Select **Save** to save the configuration, and return to the Contents menu.
- Again select the desired configuration.
- Select **Send**.
- The Field Communicator will prompt you to take the instrument to "out of service" mode. Follow the prompts to complete this. At the point in this process it asks the the following: "To keep instrument's travel calib, press Abort; then edit and unmark Travel Calib Variables 1 – 11. Otherwise, press OK" , press "**OK**" to input the calibration data from the saved configuration.
- After the saved configuration has been sent, follow the prompts to put the instrument back into the "in service" mode.

**To change a digital valve controller on the valve:**
 **WARNING**

Avoid personal injury or property damage from sudden release of process pressure or bursting of parts. Before performing any maintenance procedures:

- Always wear protective clothing, gloves, and eyewear to prevent personal injury.
- Do not remove the actuator from the valve while the valve is still pressurized.
- Disconnect any operating lines providing air pressure, electric power, or a control signal to the actuator. Be sure the actuator cannot suddenly open or close the valve.
- Use bypass valves or completely shut off the process to isolate the valve from process pressure. Relieve process pressure from both sides of the valve.
- Vent the pneumatic actuator loading pressure and relieve any actuator spring precompression.
- Use lock-out procedures to be sure that the above measures stay in effect while you work on the equipment.
- Check with your process or safety engineer for any additional measures that must be taken to protect against process media.

Block the valve into position either with a handwheel or with a pneumatic bypass arrangement that includes a regulator and pressure gauge. Remove the existing digital valve controller by disconnecting mounting hardware, being careful NOT to loosen or move the adjustment arm with pin that is connected to the valve stem block. The adjustment arm will remain on the valve and its position must remain the same.

**Note**

The adjustment arm is held in place with a star washer and serrated nut. Do not remove or loosen the nut from the adjustment arm.



**WARNING**

Personal injury or property damage, caused by unexpected valve movement, could result if the digital valve controller is put in service with the adjustment arm moved from its original position.

If the adjustment arm is moved, the digital valve controller must be calibrated before putting it in service. Refer to the appropriate instruction manual or quick start guide for calibration information.

Install the new digital valve controller, inserting the adjustment arm pin in to the feedback arm.

**To input or change the name of the digital valve controller:**

1. From the online menu select **Setup & Diag**.
2. Select **Detailed Setup**, and then **General**.
3. Select **HART Tag**, and enter the valve tag number.

You can also enter the valve serial number, the date, and a message if desired.

**Related Documents**

- FIELDVUE® DVC5000 Series Digital Valve Controllers Instruction Manual

**Note**

The DVC5000 digital valve controller is obsolete. Contact your Emerson Process Management sales office if a copy of this instruction manual is needed.

- Fisher® FIELDVUE® DVC6000 Series Digital Valve Controllers Instruction Manual (D102794X012)
- Fisher® FIELDVUE® DVC6000 Series Digital Valve Controllers Quick Start Guide (D102762X012)

These documents are available from your Emerson Process Management sales office. Also visit our website at [www.FIELDVUE.com](http://www.FIELDVUE.com).

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