Configuring the FIELDVUE™ DVC6200 SIS for Throttling Control Using ValveLink™ Software

⚠ WARNING

This instruction manual supplement is not intended to be used as a stand-alone document. It must be used in conjunction with the following documents:

- **Safety manual for DVC6200 SIS Digital Valve Controller (D103601X012), sections pertaining to the Position Monitor**
- **Fisher FIELDVUE DVC6200 SIS Instruction Manual (D103557X012)**

Failure to use this instruction manual supplement in conjunction with the above referenced manuals could result in personal injury or property damage. If you have any questions regarding these instructions or need assistance in obtaining either of these documents, contact your Emerson sales office or Local Business Partner.

This instruction manual supplement is intended to assist in the use of the DVC6200 SIS as a SIL capable position monitor AND as a non-SIL capable throttling digital valve controller.

⚠ WARNING

The DVC6200 SIS failure rates for the digital valve controller safety function, as listed in the FMEDA and SIL certificate, are not valid in this configuration (with 4-20 mA operation).

Configuration

⚠ WARNING

When using natural gas as the supply medium:

- **Remove electrical power before removing the housing cap. Personal injury or property damage from fire or explosion may result if power is not disconnected before removing the cap.**
- **Ensure that the cover is correctly installed before putting this unit back into service. Failure to do so could result in personal injury or property damage from fire or explosion.**

1. Remove the Printed Wiring Board from the DVC6200 SIS.

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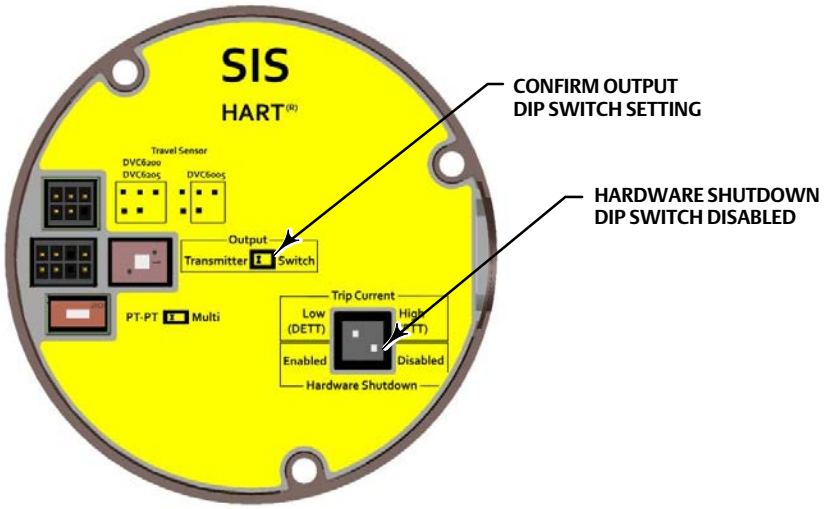
2. Ensure that the Hardware Shutdown DIP Switch is configured to disabled, as shown in figure 1.
3. Confirm that the Output DIP Switch is in the desired position for use as either a Position Transmitter or Switch.

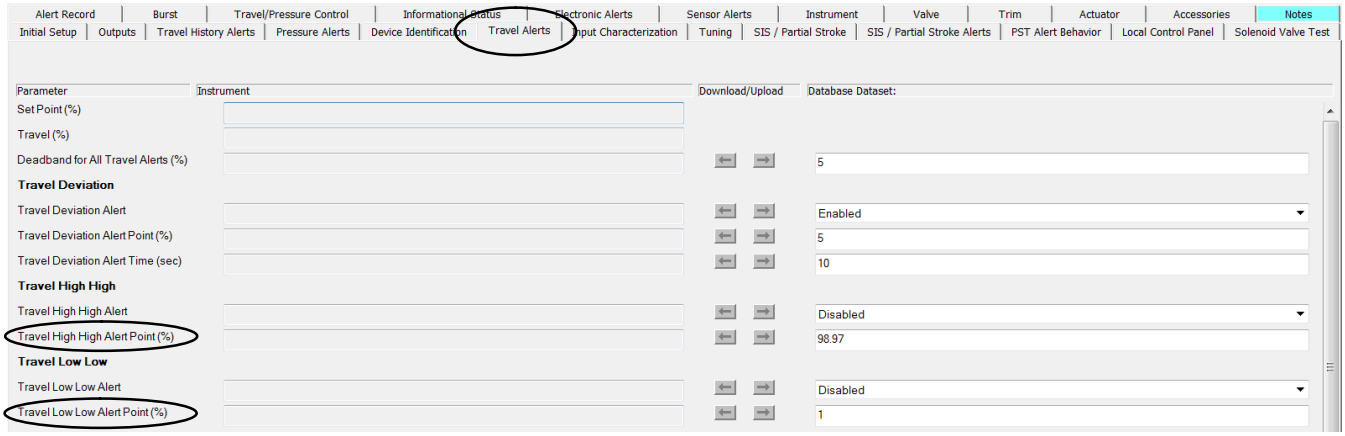
Figure 1. Printed Wiring Board



4. Reassemble the DVC6200 SIS.
5. Connect the DVC6200 SIS to ValveLink software.
6. Run a PST Calibration, if not done earlier.
7. Under Detailed Setup, select Travel/Pressure Control, see figure 3 for tab location.
   a. Set the Low Limit/Cutoff Point to 0.5-1% more than the Travel Low Low Alert Point in the Travel Alerts tab (refer to figure 2 for Travel Alerts tab).

b. Set the HighLimit/Cutoff Point to 0.5-1% less than the Travel High High Alert Point in the Travel Alerts tab (refer to figure 2 for Travel Alerts tab).

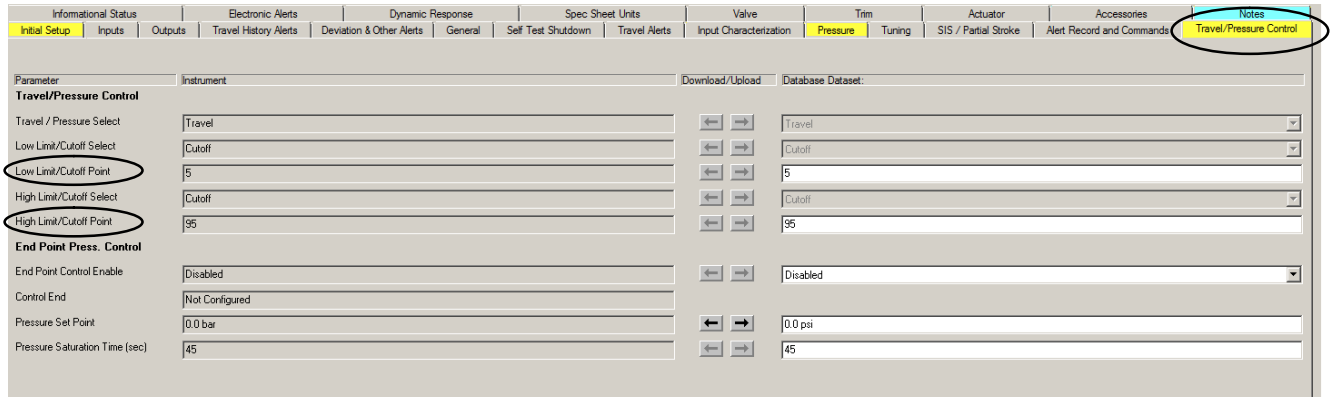
Figure 2. Travel Alerts Tab



8. Once the Cutoff Points are set, download to the DVC6200 SIS.
9. When the DVC6200 SIS is placed in service it will throttle between whatever cutoffs are set in step 7.

   In the example shown in figure 3, it will be able to throttle between 5 and 95% valve travel.

Figure 3. Detailed Setup > Travel/Pressure Control



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