

# Using Fisher™ FIELDVUE™ HART® Digital Valve Controllers with the Smart Wireless THUM™ Adapter and a HART Interface Module (HIM)

HART communicating FIELDVUE digital valve controllers can be used in conjunction with a HART Interface Module (HIM) and a Smart Wireless THUM adapter from Emerson Automation Solutions (figure 1). This combination allows multiple analog signals into a control system via the HIM and remote access to diagnostics with the THUM adapter.

The Smart HART Loop Interface and Monitor from Moore Industries (shown in figure 2), and ValveLink™ software or AMS Suite: Intelligent Device Manager can be used with the THUM adapter to implement this solution.

**Note**

A THUM adapter should not be used with a FIELDVUE digital valve controller firmware 4 and lower in burst mode. Since the HIM is a HART Master and polls the FIELDVUE digital valve controller, burst mode is not required.

If the HIM replaces a device that requires the digital valve controller to be in burst mode, be sure to disable burst mode in the digital valve controller.

Figure 1. Smart Wireless THUM Adapter from Emerson and Moore Industries HART Loop Monitor

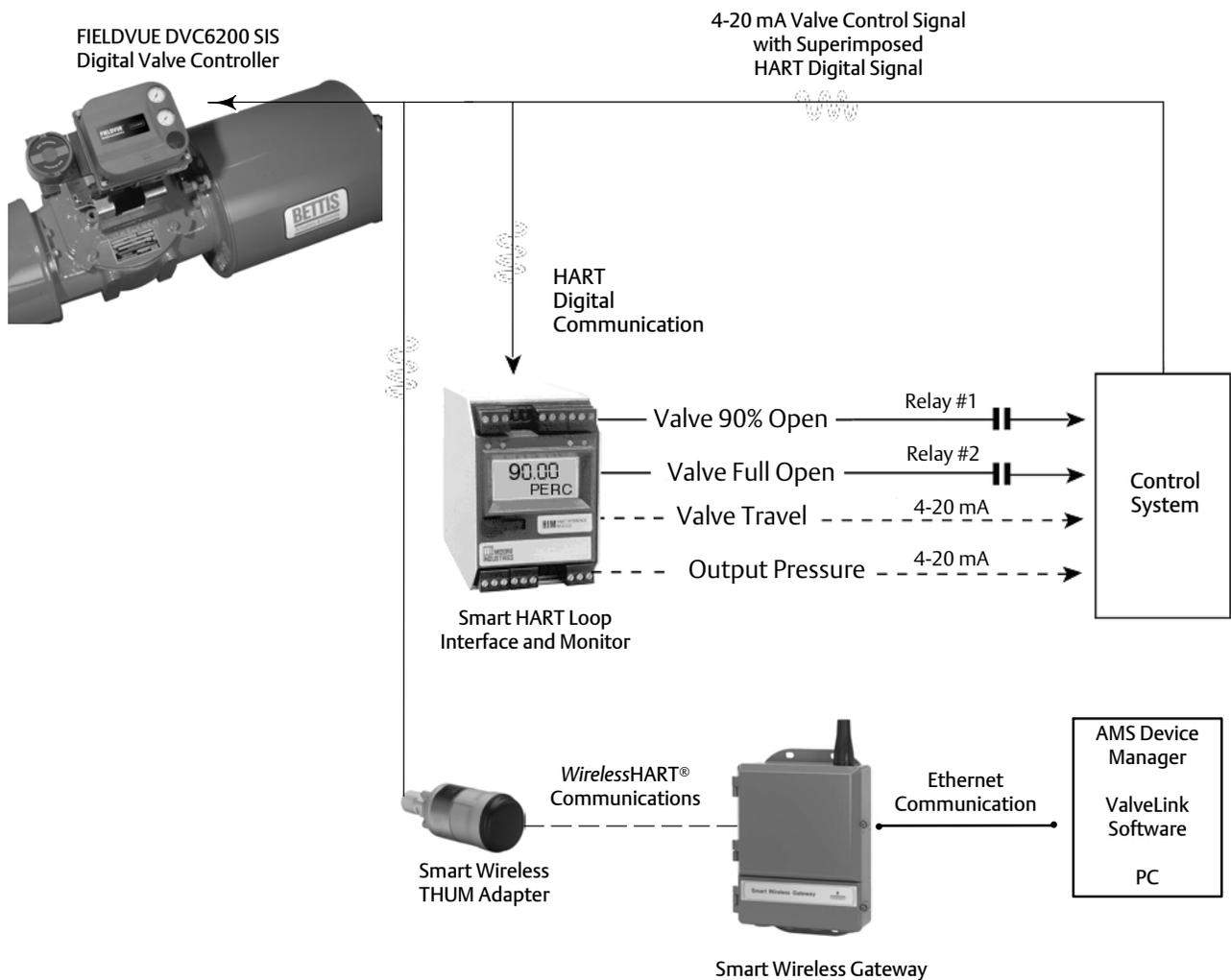


WIRELESS THUM ADAPTER INSTALLED ON DVC6200 DIGITAL VALVE CONTROLLER



HART LOOP INTERFACE AND MONITOR (HIM)

Figure 2. Example of FIELDVUE DVC6200 SIS Digital Valve Controller Installed with a Moore Industries HART Loop Monitor, the Smart Wireless Thumb Adapter and the Smart Wireless Gateway



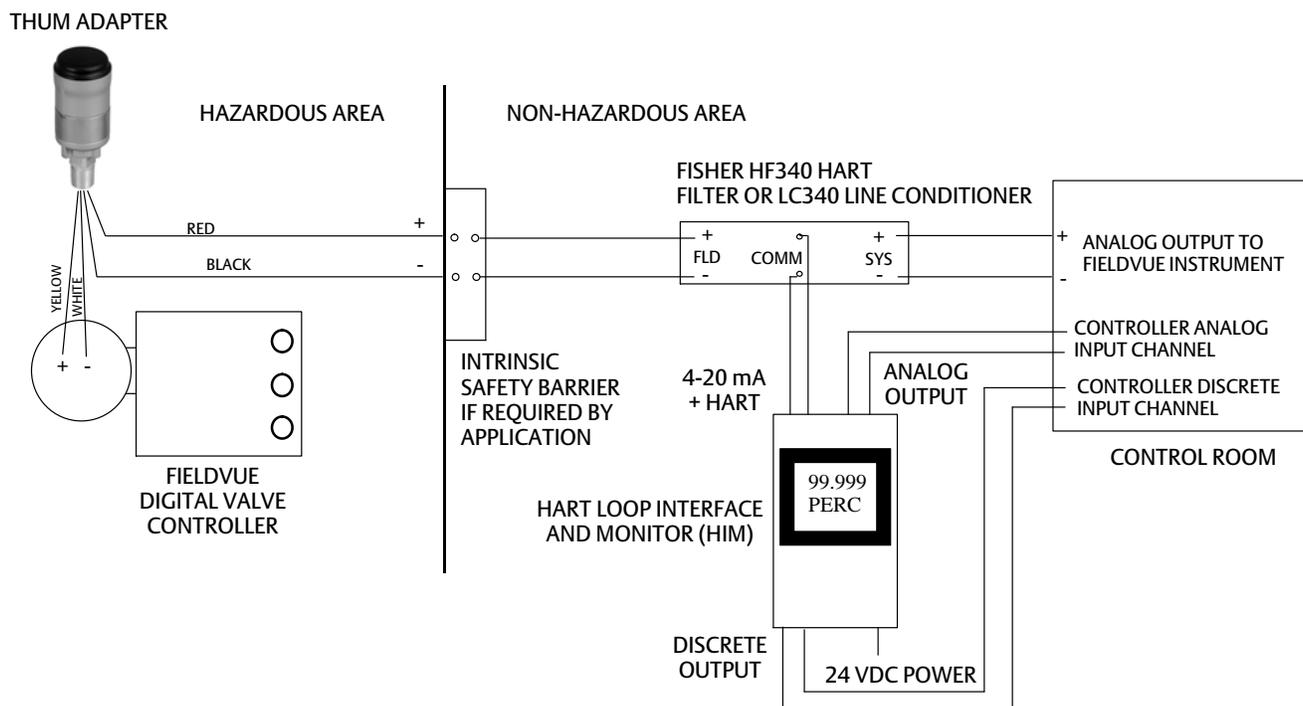
## Installation and Configuration Considerations

Refer to figures 2 and 3 for installation examples.

The HIM should be configured as the Primary Master and the THUM adapter as the Secondary Master. Both devices will be transparent on the loop and poll the digital valve controller.

The HIM updates about 2 times per second. The THUM adapter updates as configured by the user and allows communications with ValveLink software and AMS Device Manager.

Figure 3. Example HIM Smart HART Loop Interface and Monitor and Smart Wireless THUM Adapter Installation with a FIELDVUE Digital Valve Controller



NOTE:  
REFER TO SMART HART LOOP INTERFACE AND MONITOR USERS' MANUAL [224-778-00](#)  
AVAILABLE FROM MOORE INDUSTRIES FOR MORE DETAILED WIRING INFORMATION.

## Additional Information

Refer to instruction manual supplement Using FIELDVUE Instruments with the Smart HART Loop Interface and Monitor (HIM) ([D103263X012](#)) for detailed information on connecting the HIM to a FIELDVUE instrument. This supplement is available from your Emerson sales offices, Local business Partner, or at [Fisher.com](#).

For additional information on the HIM, refer to Smart HART Loop Interface and Monitor [documentation](#) or the Moore Industries web site, at [www.miinet.com](#).

For additional information on the THUM adapter refer to the Smart Wireless THUM Adapter quick installation guide ([00825-0100-4075](#)) or reference manual ([00809-0100-4075](#)) available from your Emerson sales office or [www.Emerson.com](#).

## Related Fisher Documents

### DVC6200 and DVC6200 SIS

- DVC6200 Series Digital Valve Controller Quick Start Guide ([D103556X012](#))
- DVC6200 HW1 Digital Valve Controller Instruction Manual ([D103409X012](#))
- DVC6200 HW2 Digital Valve Controller Instruction Manual ([D103605X012](#))
- DVC6200 SIS Digital Valve Controller Instruction Manual ([D103557X012](#))

### DVC6000 HW2

- DVC6005 Series Remove Mount Digital Valve Controller Quick Start Guide ([D103784X012](#))
- DVC6200 HW2 Digital Valve Controller Instruction Manual ([D103785X012](#))

### DVC2000

- DVC2000 Digital Valve Controller Quick Start Guide ([D103203X012](#))
- DVC2000 Digital Valve Controller Instruction Manual ([D103176X012](#))

### Miscellaneous

- HF340 Filter Instruction Manual ([D102796X012](#))
- LC340 Line Conditioner instruction manual ([D102797X012](#))
- Using FIELDVUE Instruments with the Smart HART Loop Interface and Monitor (HIM) ([D103263X012](#))

### DVC6000 and DVC6000 SIS (Supported)

- DVC6000 Digital Valve Controllers Instruction Manual ([D102794X012](#))
- DVC6000 SIS Digital Valve Controllers for Safety Instrumented System (SIS) Solutions Instruction Manual ([D103230X012](#))

Documents are available from your Emerson sales office, Local Business Partner, or at [Fisher.com](http://Fisher.com).

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