

Effective Use of FIELDVUE™ DVC6200 Instrument Diagnostics

HART® Communication Protocol

Fisher™ FIELDVUE instruments offer state-of-the-art diagnostic tools providing a window into the health of valve assembly assets. However, crafting a maintenance strategy to take advantage of these tools can be a daunting task. These basic steps will provide immediate value and build momentum toward broader utilization.



Commissioning/Diagnostic Tools

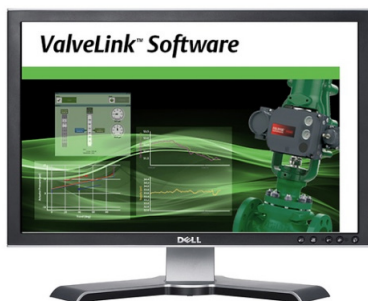
ValveLink™ Mobile with AMS
Trex Device Communicator
or 475 Field Communicator



AMS ValveLink SNAP-ON™
Software



ValveLink Solo &
ValveLink DTM Software



Commissioning/Diagnostic Tests by Instrument Level

HART Communicating (HC) Tier Diagnostic Tests

- Collect a detailed setup and save dataset
- Perform a status monitor while in service and save the data set
 - Save data sets for 4mA, 12mA, and 20mA

Advance (AD) Tier Diagnostics

- Run HC Tier Tests
- Run a Total Scan
- Run a Valve Step Response Tests
 - 3 Set Point Step Test*
 - 0, 100, 0
 - Ramp Time = 0
 - Collection Time = 10 seconds
 - Performance Step Test*
 - Predefined 25 step test
 - Ramp Time = 0
 - Collection Time = 10 seconds



Performance Test



Stroke Time Test

*Preconfigured tests (shown above) are available in
ValveLink Software version 13.1 or greater

Performance Diagnostics (PD) Tier

- Run HC and AD Tier Tests
- Read Triggered Data (if Data Available Alert is active) and save dataset
- Run a One Button Sweep Diagnostic Test
- Run a Valve Friction Test and save dataset

Commissioning

Commissioning Steps

1. Follow the mounting and installation guidelines per the Fisher FIELDVUE DVC6200 Quick Start Guide
2. Run the setup wizard
3. Run the Auto Travel Calibration
4. Configure the instrument, per the table to the right

Setup Parameter	Factory Default Settings	Recommended Initial Settings
HART Tag	As Specified On Order	Fill in Plant Information
Message	Blank	Fill in Plant Information
Descriptor	Blank	Fill in Plant Information
Date	Factory Calibration Date	Set to Current Date
Valve Serial Number	Blank	Fill in Valve Serial Number
HC Tier / AD Tier / PD Tier		
Travel Deviation Alert Enabled	Yes	Yes
Travel Deviation Alert Point	5%	5%
Travel Deviation Time	9.99 seconds	5 seconds
Supply Pressure Alert Enable	Yes	Yes
Supply Pressure Alert Point	.345 Bar (5 psi)	Single Acting: 0.20 Bar (3 psi) above upper bench set Double Acting: 0.68 Bar (10 psi) below nominal
Drive Signal Alert Enable	Yes	Yes
Diagnostic Data Avail Enable**	No	Yes
Alert Record Enable	No	Yes
Alert Record Not Empty Enable*	No	Yes
Alert Record Full Enable*	No	Yes
Cycle Counter	0	0
Travel Accumulator	0	0
PD Tier Only		
Trigger Profile Enable**	Disabled	Enable
Trigger Profile Variables**	Travel / Travel Setpoint	Travel / Travel Setpoint / Drive Signal / Supply Pressure
Triggered Profile Events**	None	Travel Deviation
Trigger Record Length**	60 Sec	60 Sec

*Requires a work practice to regularly check/clear the alert

**Functionality with Performance Diagnostics Tier

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