

Profiler Test Suite Software

Profile (ramp)

- Calibrations (valve and I/P)
- Dynamic Error %
- Travel
- Valve and I/P Pressures
- Total Seat Load
- Spring Rate
- Bench Set

HRL

- Hysteresis
- Repeatability
- Linearity

Deadband

Resolution

Sensitivity

Stroke Speed

- Overshoot (increasing, decreasing signal)
- Delay
- Velocity
- Rise Time
- Fall Time

Step Response

- Overshoot (increasing, decreasing signal)
- Delay
- Velocity
- Rise Time
- Fall Time
- Time Constants 1 thru 5 Increasing, decreasing signal)
- Timer

Frequency Response

- Phase Lag (degree)
- Attenuation Ratio (-dB)

I/P HRL

- Hysteresis
- Repeatability
- Linearity

Passive Monitoring

- Pressures
- Signal
- Travel (linear/rotary)

Tuning (Positioners/Boosters)

- Pressures
- Travel (linear/rotary)

Database

Tracking test data has never been easier. Profiler places all valve data into one file, retrieve data by searching up to 8 different fields at one time. Profiler also gives you the ability to easily create tables for tracking and organizing stored data.

Each system comes with a **free** copy of ProView, a desktop version of Profiler's database. ProView gives you the ability to test and e-mail stored files, print or share data with the customer.

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PROFILER

ADVANCED CONTROL VALVE DIAGNOSTICS



Profiler has been developed with the enduser in mind, making it one of the easiest and most powerful test systems on the market today!

Take control of your diagnostic test needs. No more waisting time and money waiting for your test results to be reviewed and analyzed by an outside source. Profiler's powerful graphics allow you to analyze the valve as its being tested providing realtime analysis, saving you both time and money.

Profiler both rugged and portable, making it the perfect solution for trouble shooting valves inline and in extremely harsh environments. This capability gives Process Engineers vital information to immediately improve critical loop performance.



With Profiler you can check and calibrate sensors on all digital positioners. While digital positioners have diagnostic capabilities, those capabilities are limited to the positioner itself.

True stem or shaft movement cannot be checked with a digital positioner. Many valves have Deadband due to rack and pinion, splices or linear linkages used for feedback. Emphasizing the importance of having an independent system that can test actual displacement and pressures.

Profiler's hardware attachment kit is small, lightweight and can be attached to all major manufacturers control valves (diaphragm/piston or linear/rotary).

Setup and calibrations are simple with the interface box, sensors and cables all being color coded.



Features

Profiler supports Analog (4-20mA and 10-50mA) valves and positioners. Split ranging can also be calibrated and tested.

Positioners, boosters and valves can be tuned through the calibration screen with digital readings or traditional pressure gauges based on user preference.

Profiler's Test Sequencer gives you the ability to select multiple tests and automatically run the selection. Tests are easily customized for superior valve analysis.

Reports are straightforward and easily generated in pdf format and saved digitally giving you the ability to immediately forward critical information.

Pressure balance and spring type (no spring, standard, heavy duty, dual, broken or incorrect spring set) are easily determined by viewing the pressure curve.

Profiler's Zoom feature is used to check a valves seat contact for problems. You now have the ability to detect possible ware or improper seating that can lead to leakage or premature seat failure before it happens.

Passive monitoring capabilities provide a comprehensive look at a valves performance. With up to 13 channels of data being saved to file, Profiler provides valuable information for process control improvements.

Software upgrades and system calibration are provided annually. All calibration records are NIST traceable and maintained indefinitely.Features

Protocols

Profiler has the ability to communicate with *HART*, *FOUNDATION FIELDBUS* and *Profibus* communication protocols.

Profiler is the only system on the market that can communicate with and test Analog, *HART*, *FOUNDATION FIELDBUS* and *Profibus*.

Because Profiler has the ability to communicate with the positioner you no longer need to spend extra time and money on other manufacturers software and training.