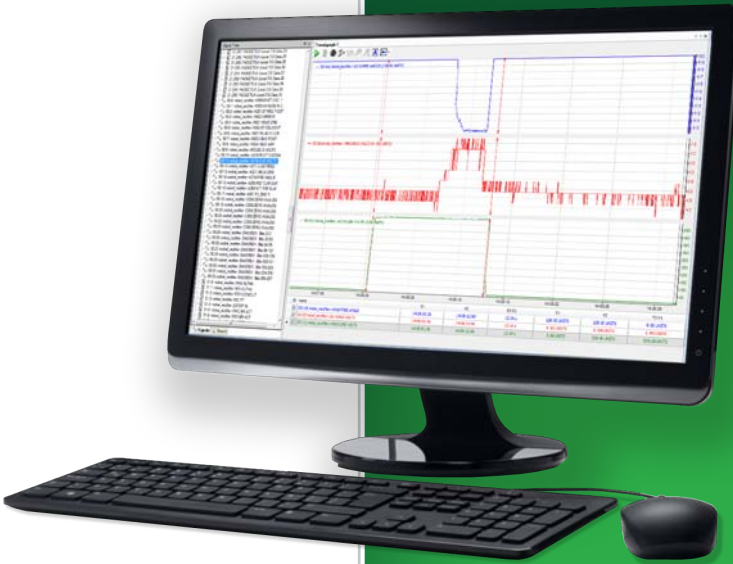


PerformanceView 2.0



- **Maximize Production**
- **Improve Performance**
- **Increase Availability**

Measurable, Documented Results

“We have reduced our average troubleshooting time for a control system event from 90 minutes to 10 minutes using Nidec-Avtron’s Diagnostic Tools.”

– Maintenance Manager, Eastern US

Scalable Process Automation Diagnostics System

One System Ties It All Together

- Gather data simultaneously from your drive system, PLC and process equipment
- Quickly determine the source of problem: operational, mechanical, electrical or process
- Optional web interface
- Built-in security for engineers and operators

More Efficient Troubleshooting

- PerformanceView 2.0 is your 24/7/365 watchdog
- No more setting up recording devices to catch the next event
- Identifying root cause after initial event avoids costly reoccurrences of problems
- Access to reliable event data improves hand-off between operating and maintenance personnel
- Event notification by SMS text messaging via customer e-mail server

Fast Payback

- Typical payback experienced by PerformanceView customers is 3 to 6 months

Other PerformanceView Benefits

Optimize Drive System Operation

- Generate an historical baseline to track system performance changes

Predictive Maintenance

- Helps improve availability and reduce downtime, using stored data to spot trends can identify small problems before they become large ones

Targeted Training

- Helps improve operator performance. Obtain operational excellence by establishing and following best practices\

Features

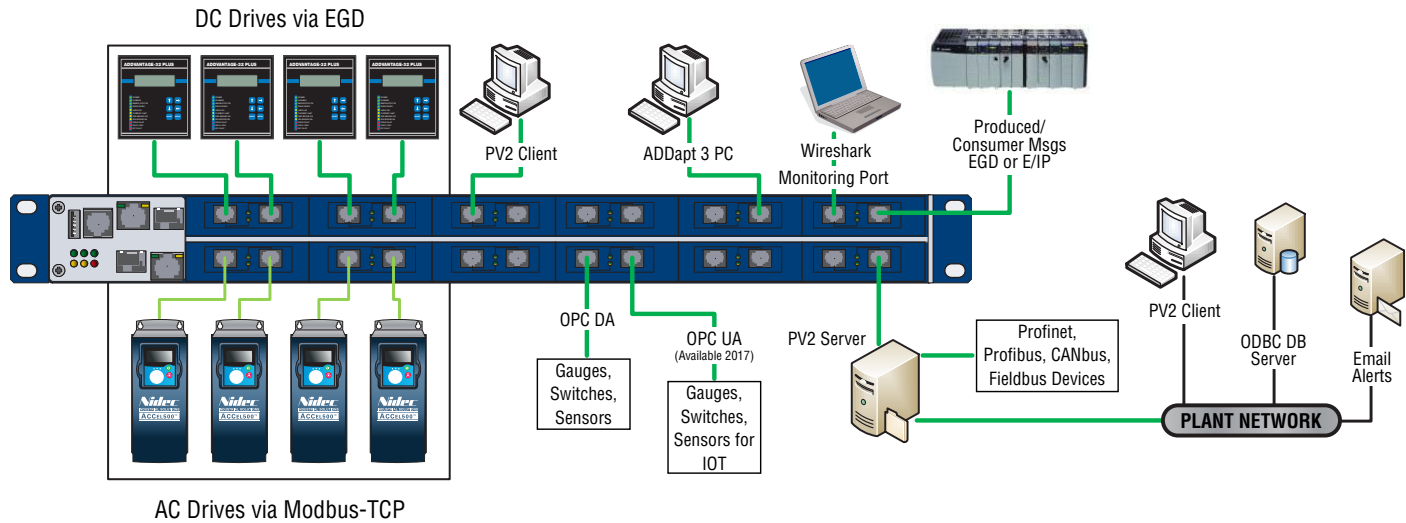
High-Speed Data Collection

PerformanceView 2.0 collects data from your drives, PLC, operator inputs, and most third party analog or digital inputs. All inputs are time stamped, synchronized and stored in a single database.

Available Drivers

- Multiple communication protocols supported.
EGD, EtherNet/IP, Modbus TCP/IP, CanBUS, Profibus, Profinet
- GE Reflective Memory

Typical PV2.0 Network Layout



Trends

Real-time and Historical Data

- Plot channels simultaneously
- All data displayed in engineering units
- One-button scroll back into history enables fast, easy searching

Events

Tabular Display

Exclusive "JUMP" feature allows user to move from alarms and faults on the tabular event screen to the historical trend screen showing data with a single click. Requires optional HD server.

Remote Data Access

Supports Multiple Remote View Stations

Allows troubleshooting without being in the drive room or at the mill site.

Optional Software

HD Server - Compatible with any server. Allows for event based recording and instant navigation to events.

Q Panel - Customize the way data is presented. Create custom screens that include charts, graphs, tables, dials, buttons, digital readouts.

View Station - Single user and 5 seat viewer client licenses available.

Support for SQL Queries - Data coordinator software package can be used to transmit data to mill supervisory systems such as PI.

VPN Connection with RDP Support - Allows viewing of data by off-site personnel and factory technicians. More eyes on the data means a quicker resolution to the problem and timely return to production.

Hardware

Standard System

Standard system includes the ability to receive event notification, real time historian, and PLC monitoring. System consists of a WIN 7 OS tower PC platform and (1) remote client license. This can be installed on any customer supplied Windows PC.

- 4TB disk storage in two RAID-1 configurations to provide mirrored automatic backup
- 30 days high definition storage
- Typical scan rate better than 50ms down to 10ms with optional fiber optic board installed
- Includes 2048 tags and communication drivers for drives and PLC communication

High Performance System

In addition to the above features this system includes unlimited tags, HD server, and communication drivers for drives and PLC.

Two 2TB disks in a RAID-1 and five 2TB disks in a RAID-6 configuration to provide mirrored back up and striped data access.

- Windows Server 2012
- Up to 30 days high definition storage
- Typical scan rate down to 10ms for drives and 50ms for PLC

Both Systems Include:

- 24/7 two year onsite parts and labor for PCs and server
- Additional 1 year depot warranty

Optional Hardware

Fiber Optic Board – ensures 10ms scan rates by providing interrupt driven communications control. Installs on any server.

Ruggedized Hardware – custom solutions designed to operate reliably in harsh environments such as mining and marine.



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