

# RemoteView

## Operator Interface Software for 505/505XT

### RemoteView

Woodward's RemoteView software program functions as a remote operator control panel and/or engineering station with the 505 or 505XT steam turbine controls. Once loaded onto a remote computer or touch panel, this software program allows the computer or touch panel to perform all of the 505/505XT front panel

display functions (monitor, operate, tune, and configure). Password-based login level security allows users to manage what functions they want the remote panel user to have.

RemoteView Operator Interface Software provides Human Machine Interface (HMI) capabilities for 505 and 505XT steam turbine control systems, and is designed for operator control and annunciation in either control room or local control applications. Integral remote access capabilities allow flexibility in a variety of applications.

RemoteView uses a powerful PC-based HMI environment to provide a graphical and intuitive interface for the 505 and 505XT controls. This software program displays all parameters required for operation and service of 505/505XT controllers. An operator or engineer can graphically view operating inputs, vary control set points, issue Run Mode commands, and view trends and event logs of turbine and control parameters.

Either as a full-time operator station or a special-purpose tool, RemoteView releases all of the power and flexibility of the 505/505XT controller.

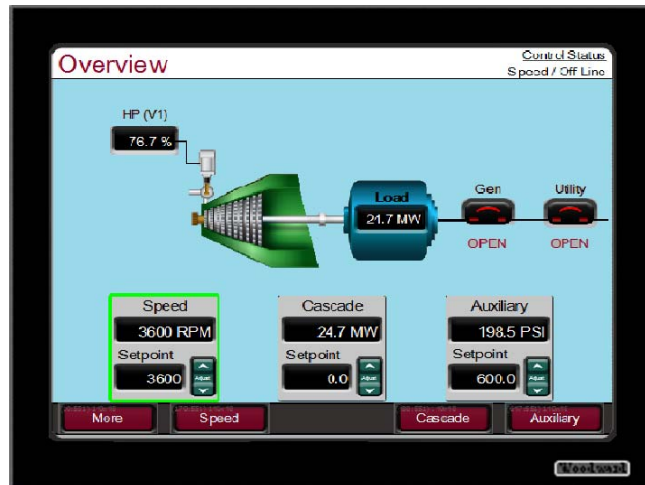
RemoteView software may run on any PC that meets the specified requirements, thus allowing a variety of packaging options. It can be installed on a permanent computer in a control room for true operator interface, or it may be a rugged industrial touch panel mounted on the turbine deck for local operation, or it could be a laptop computer used by the instrumentation engineer for troubleshooting. The display's graphics were designed to be suitable for use with a touch-panel computer.

The RemoteView configuration is transparent to the user. It dynamically extracts the configuration parameters from the 505/505XT control system and automatically shows only the relevant functionality and screens. No matter what the 505 or 505XT configuration, no RemoteView screen configuration is required.

The RemoteView software program's password selectable modes are:

- Operate
- Service
- Configure

If the RemoteView program user is logged in using the "Monitor Only" mode, then the RemoteView does not accept user commands and just functions as a system monitor that only displays the connected 505/505XT controller statuses and respective control loop values.



- 505 or 505XT Human Machine Interface
- No license required as an engineering tool
- License required as an operator control panel
- For operator interface or troubleshooting
- Alarm/trip log with time tagging
- Graphic system control screens
- Displays all governor and turbine parameters
- Discrete and analog I/O screens for improved troubleshooting
- Automatic screen selection based on control configuration
- Real-time trending

If the RemoteView program user is logged in using the “Operator” mode, then this program mimics the 505 or 505XT’s front panel display during normal operation, allowing the user to monitor as well as operate and adjust all 505/505XT “run time” control modes. In this mode of operation, the 505 accepts commands from the HMI.

If the RemoteView program user is logged in using the “Service” mode, then the user is allowed to monitor, operate all 505/505XT “run-time” control modes, and dynamically adjust all PID dynamic settings.

If the RemoteView program user is logged in using the “Configure” mode, then this program allows the user to remotely view and configure the 505 or 505XT’s functionality. Note that the 505 must be in its “shutdown” state for users to perform configuration changes.

## ***Licensing***

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The RemoteView software program can be used with or without a user license. Without a user license, this software program shuts down after 120 minutes and must be restarted. When a user license is purchased and correctly installed on the same computer running the RemoteView software program, this program will continue to operate indefinitely. This configuration allows users who simply want to use the RemoteView program as an engineering workstation or commissioning tool to do so without purchasing a license, and allows users who want to utilize this HMI software program as an operator control panel to do so by simply purchasing and installing a user license.

## ***Features***

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RemoteView is a standard, self-configuring, Qt-based software package. It is pre-configured to communicate with either a 505 or 505XT Woodward steam turbine control.

- Automatic screen generation based on control configuration
- Security with multiple password levels
- Real-time trending
- Alarm/trip status indication
- Alarm/trip log with time tagging and first-out indication
- I/O and system troubleshooting
- Graphic system control screens
- Event status logging and history

## ***Graphic Screens Include***

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- Turbine Application Overview
- All controlling parameters
- Starting sequence status
- Turbine related information
- Generator related information
- Speed, extraction, aux, cascade, and limiter information
- Analog input/output information
- Discrete input/output status
- System alarm & shutdown information

## ***Hardware Requirements***

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The computer used should have a minimum of a Pentium® \* 233 processor with Windows® \*\* XP SP3, 64 MB RAM, 1.5 GB hard drive, 2 MB Video RAM, touch panel or other pointing device (mouse, etc.), keyboard, Video monitor with Super VGA (800 x 600) or higher resolution.

\* Pentium is a trademark of Intel Corporation  
\*\* Windows is a trademark of Microsoft Corporation

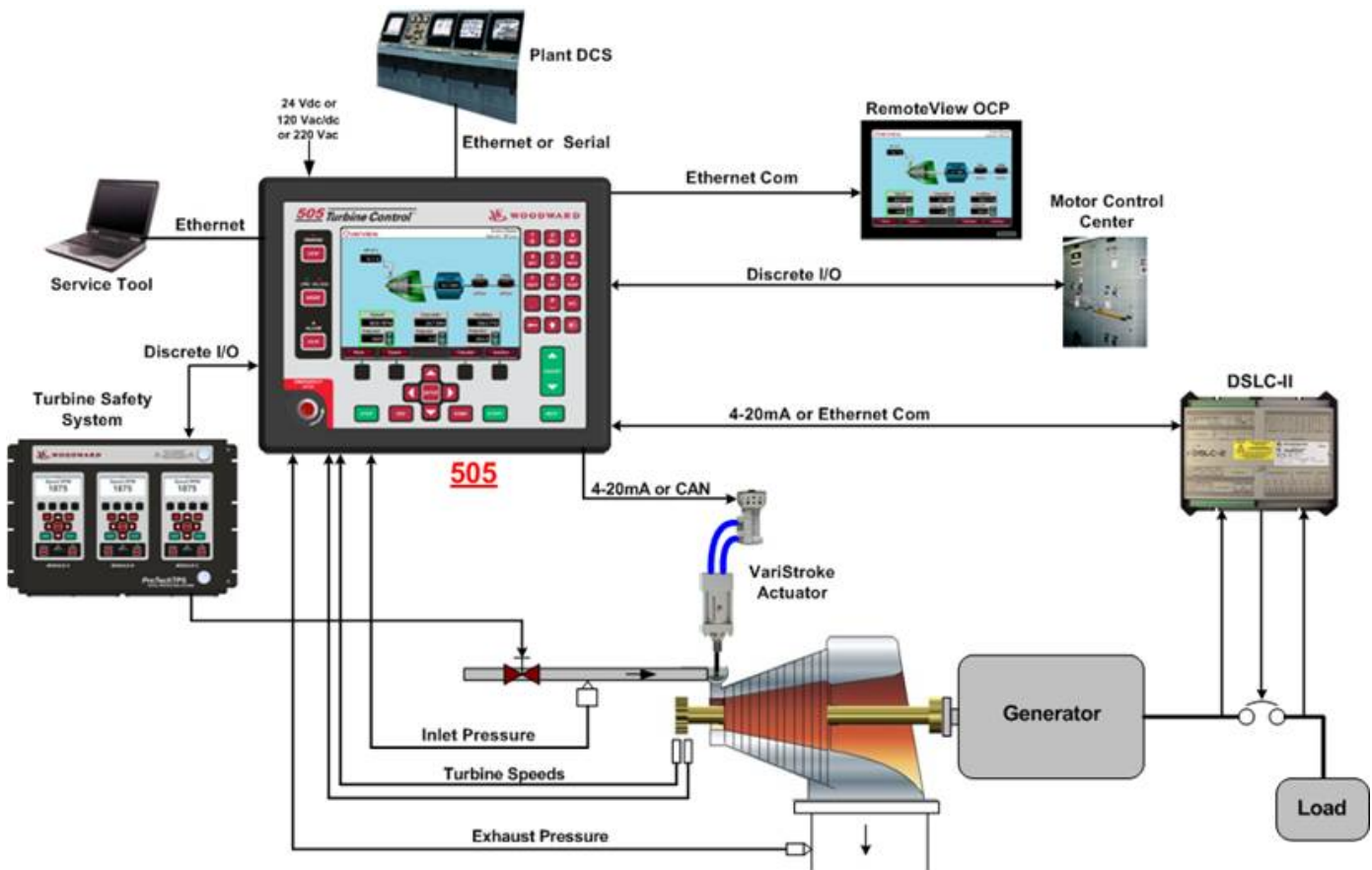


Figure 1. Typical RemoteView Application



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