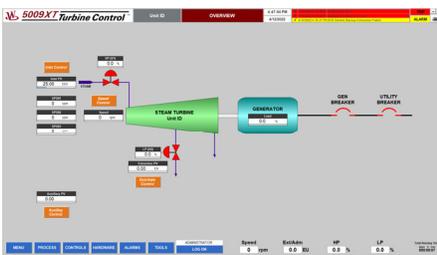


# 5009XT View

## iFix Human Machine Interface (HMI) Software for Woodward 5009XT Controls



### Applications

The 5009XT Operator Interface Software provides Human Machine Interface (HMI) capabilities for steam turbine control systems. 5009XT HMI software loads onto the user's PC and connects to the 5009XT control. 5009XT HMI is designed for operator control and annunciation in either the control room or in local control applications. Integral remote access capabilities allow for flexibility in a variety of applications. Alternatively, 5009XT View may be loaded onto a laptop PC to be used by technicians and engineers as needed.

### Description

5009XT View uses Intellution's powerful PC-based HMI engine to provide a graphical and intuitive interface for the 5009XT. The 5009XT View software is unbundled from the computer hardware to provide ultimate flexibility in application.

5009XT View displays all parameters required for operation and service. 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.

Whether it's used as a full-time operator station or as a special-purpose tool, 5009XT View exposes all the power and flexibility of the 5009XT control.

5009XT View 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. It may also be used on a rugged industrial touchscreen mounted on the turbine deck for local operation. Alternatively, it could be installed on a laptop computer used by the instrumentation engineer for troubleshooting. The graphics are suitable for use with a touchscreen computer.

The 5009XT View configuration is transparent to the user. It dynamically extracts the configuration parameters from the 5009XT control system and automatically exposes only the relevant functionality. No matter what the configuration is for the 5009XT, no 5009XT View configuration is required.

If the control is not configured to accept 5009XT View interface commands, 5009XT View functions as a system monitor only. Once the control is programmed to interface with the 5009XT View operator interface, all Run Mode operations can be monitored and performed through 5009XT View (start, stop, mode enable/disable, set point raise/lower).

- 5009XT Human Machine Interface
- 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 and historical trending

## Features

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5009XT View is a standard, self-configuring, iFix-based software package. It is pre-configured to communicate via Servlink SOS protocol with a 5009XT Woodward steam turbine control.

5009XT View features include:

- Automatic screen generation based on control configuration
- Security with multiple password levels
- Remote access capability
- Real-time and historical 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

HMI allows the user to:

- View operating points
- Control setpoints
- Issue control commands
- Check fully animated turbine startup curve
- Check animated valve demand logic
- Check fully animated steam map for extraction/admission turbines
- Check I/O signals
- Collect historical trends
- Collect alarms

Technical Manual: 35135V3

## Hardware Requirements

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The HMI Operator Interface requires the Proficy iFIX application running on a computer with a Windows operating system and a full HD resolution screen (1920x1080) or a full HD resolution touch screen.

**5009XT Turbine Control** Unit ID MENU 11:42:13 AM 6/10/2022

Customer Site Name Location

<p><b>PROCESS</b></p> <p>OVERVIEW</p> <p>STARTUP CURVE</p> <p>VALVE DEMAND</p> <p>STEAM MAP</p> <p><b>CONTROLS</b></p> <p>SPEED</p> <p>CASCADE</p> <p>INLET</p> <p>AUXILIARY</p> <p>EXHAUST</p> <p>EXTRACTION / ADMISSION</p>	<p><b>HARDWARE</b></p> <p>CHASSIS</p> <p>ANALOG INPUTS</p> <p>SPEED INPUTS</p> <p>ANALOG OUTPUTS</p> <p>CONTACT INPUTS</p> <p>RELAY OUTPUTS</p>	<p><b>ALARMS</b></p> <p>ALARMS</p> <p>ALARM HISTORY</p> <p><b>TOOLS</b></p> <p>TRENDS</p>
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Software PN: 5418-7830 HMI Revision: D1

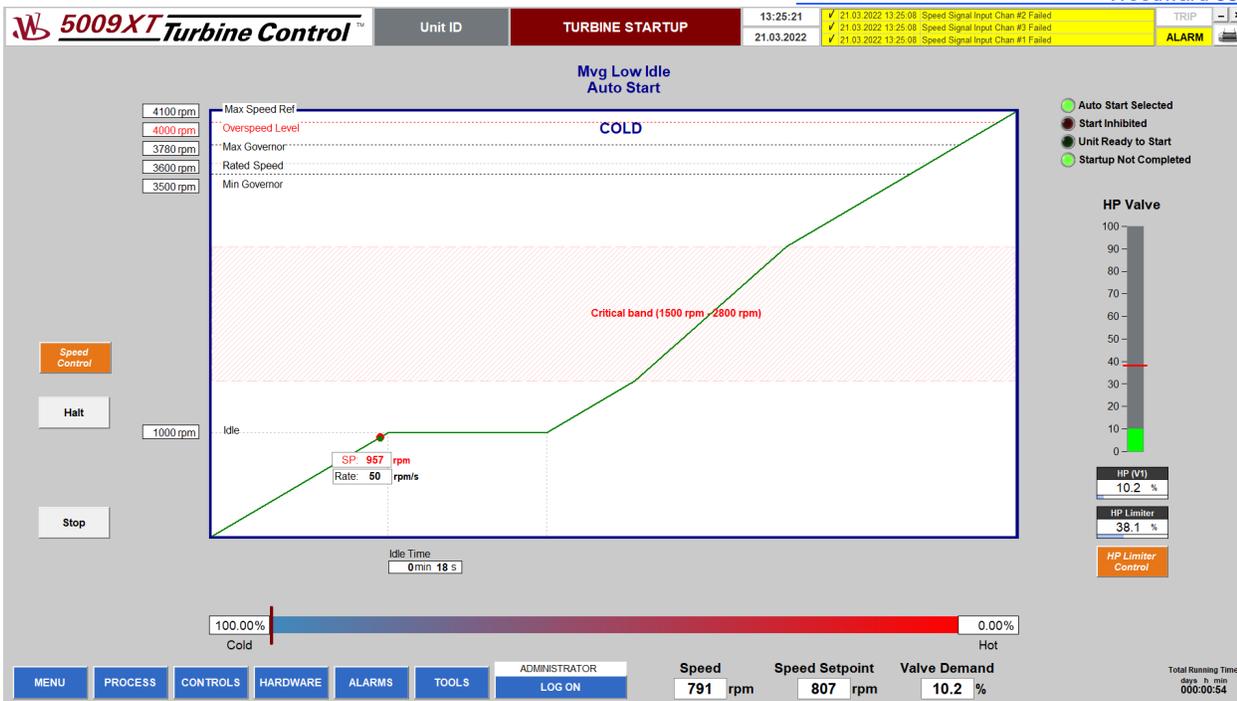
MENU PROCESS CONTROLS HARDWARE ALARMS TOOLS MONITOR LOG ON

Speed 0 rpm Speed Setpoint -1 rpm Ext/Adm -25.00 Barg HP 0.0 % LP 0.0 % Total Running Time 000:00:00

**5009XT Turbine Control** Unit ID OVERVIEW 4:47:04 PM 4/12/2022

Speed 0 rpm Ext/Adm 0.0 EU HP 0.0 % LP 0.0 % Total Running Time 000:00:07

Sample 5009XT View Operator Interface Screens



Sample 5009XT View Operator Interface Screens (continued)



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