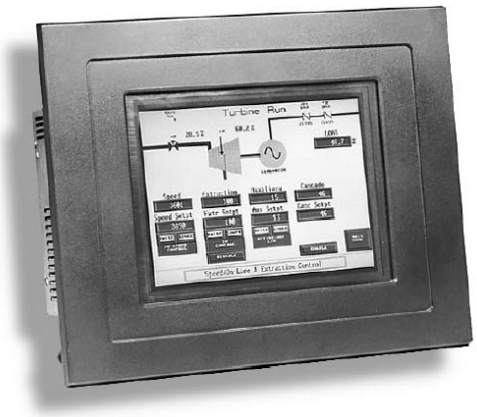
OpView™ Operator Interface

for Woodward 505, 505E, and 5009 Controls

Applications



By connecting the OpView operator interface to one of the 505, 505E, or 5009's Modbus® * ports, the OpView automatically configures its screens to match the control's programmed application. If the control is not configured to accept OpView interface commands, the OpView interface functions as a system monitor only. Once the control is programmed to interface with the OpView operator interface, all Run Mode operations can be monitored and performed through the OpView (start, stop, mode enable/disable, set point raise/lower). Using RS-422 or RS-485 communications, the OpView interface can be located up to 1200 m (4000 ft) from the digital control.

*—Modbus is a trademark of Schneider Automation Inc.

User-friendly touch screens are available to allow operators to monitor, control, and troubleshoot a system locally or remotely. These screens display:

- All Controlling parameters
- Starting sequence status
- Turbine-related information
- Generator-related information
- Speed, Extraction, Aux, Casc, and Limiter information
- Analog input/output information
- Discrete input/output status
- System Alarm & Shutdown information

Description

The OpView™ operator interface is a color touch-screen-based workstation that functions as an annunciator and operator control panel for Woodward's 505, 505E, and 5009 digital controls. The workstation allows an operator to remotely view operating inputs, vary control set points, and issue Run Mode commands. The OpView operator interface is an industrialized touch screen hardware package and a Woodward developed software program. This standard program allows the OpView interface to automatically select the correct screens based on the control's configuration. No field configuration is necessary.

- Automatic screen selection based on control configuration
- Alarm/trip log with time tagging and print capability
- Graphic system control screens
- Displays all governor and turbine parameters
- Discrete and analog I/O screens for improved troubleshooting

Features

- Graphical system control screens
- Bar Graph PID control page
- Automatic screen selection based on control configuration
- Date and Time display
- Alarm Log (with 1 second time tagging)
- RS-232, RS-422, or RS-485 communications
- Alarm printing capability (with serial printer)

Communications

- Control—RS-232, RS-422, RS-485
- Serial printer—RS-232

Power Requirements

- 90–260 Vac 50/60Hz (60 W)
- 20–36 Vdc – optional (60 W)

Specifications

Size (H x W x L)	279 x 351 x 152 mm (11 x 13.8 x 6 inches)
Weight	6.9 kg (15.2 lb)
Display	TFT (264 mm/10.4” diagonal)
Touch Screen	Resistive
Technical Manual	85015

Operating Conditions

Panel mounted	Meets NEMA-4X
Env. Rating	UL/cUL Ordinary Locations
Temperature Range	0–50 °C (32-122 °F)
Relative Humidity	5–95% non-condensing
Vibration	10–150 Hz, 1 G
Shock (operating)	10 G, 11 ms

Testing Criteria

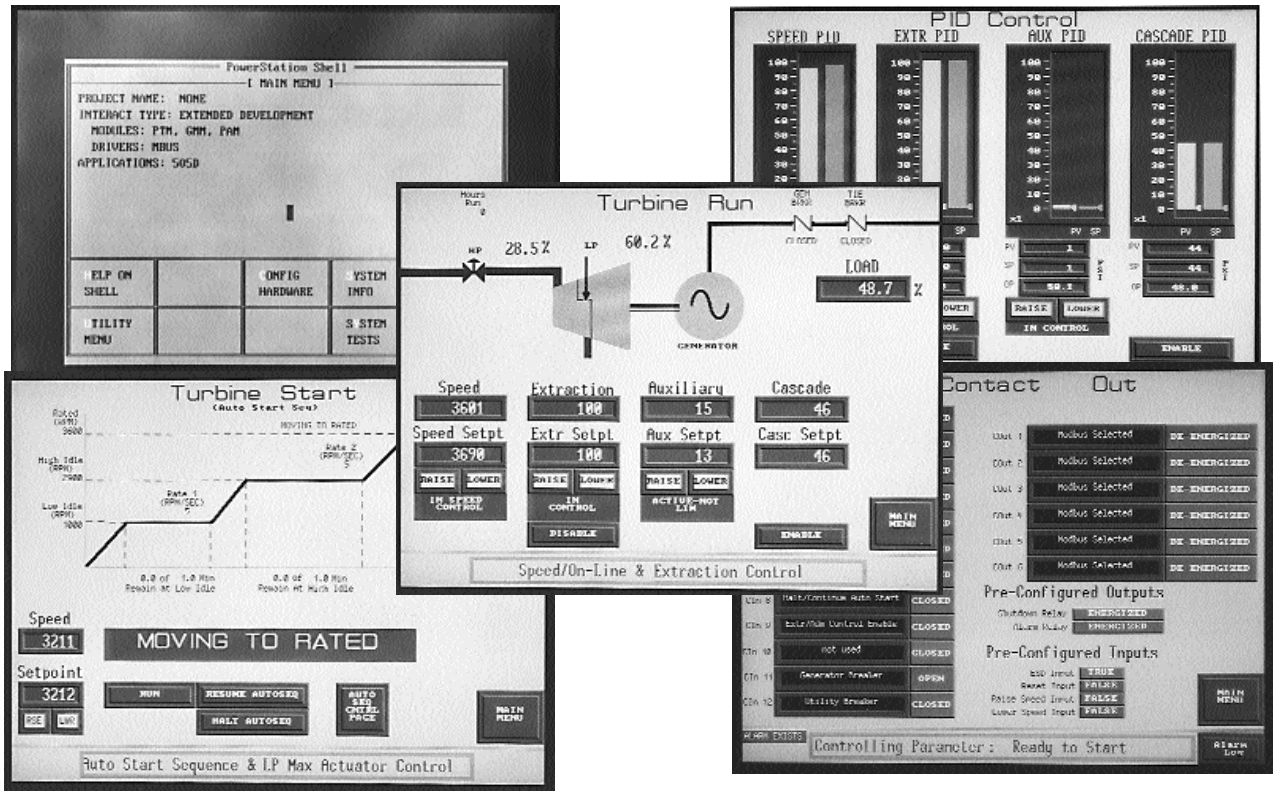
The OpView Interface has been tested to conform to the following specifications using the methods prescribed below.

Showering Arc	NEMA showering arc
Surge Compatibility	IEEE 472-1974
ESD Requirements	IEC 801-2
Operating Temperature	IEC 68-2-1
Electrical Fast Transit	IEC 801-4
Operating Vibration	IEC 68-2-6
Mechanical Shock	IEC 68-2-27
Random Vibration	US MIL-STD-8100

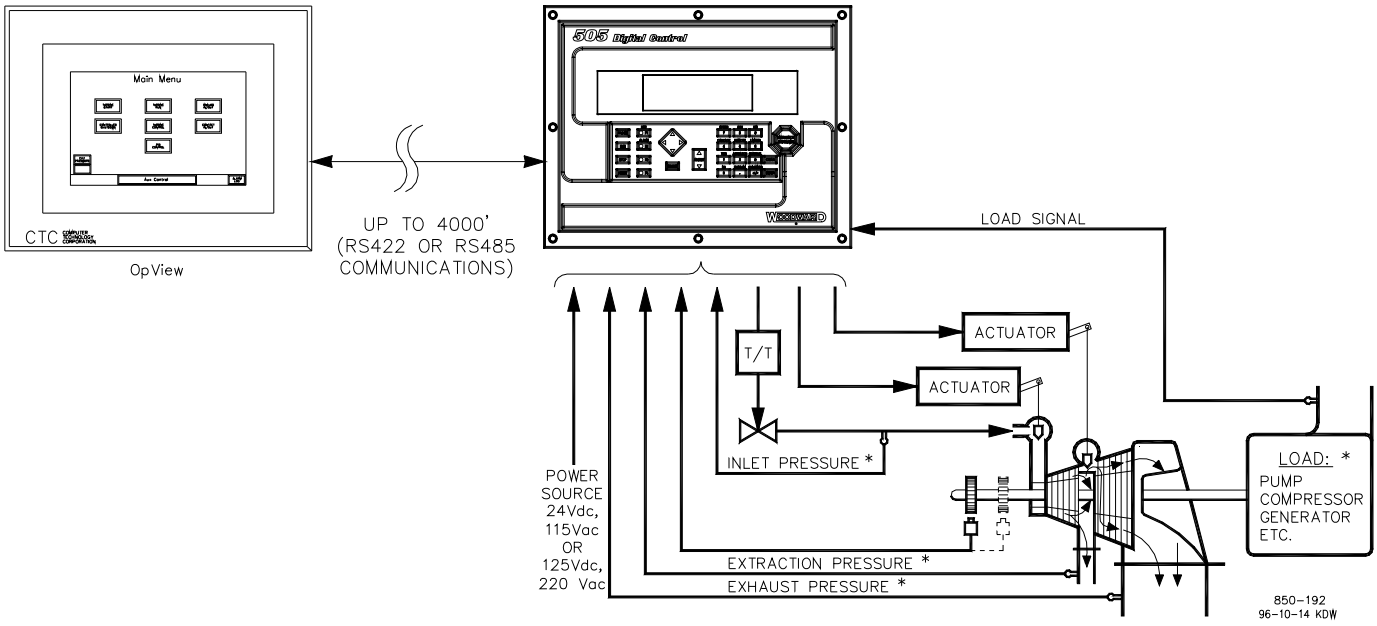
Faceplate Chemical Resistance

The touch screen and bezel can resist, with no visible effect, the following chemicals: motor oil, gasoline, machine oil, kerosene, engine oil, grease, acetone, methylene chloride, isopropyl alcohol, xylene, hexane, ethanol, methanol, nitric acid 10%, sulfuric acid 10%, hydrochloric acid 10%, phosphoric acid, sodium hydroxide, sodium chloride 26%, silicone, silicone oil, cottonseed oil, glycerin, trichloroethylene.

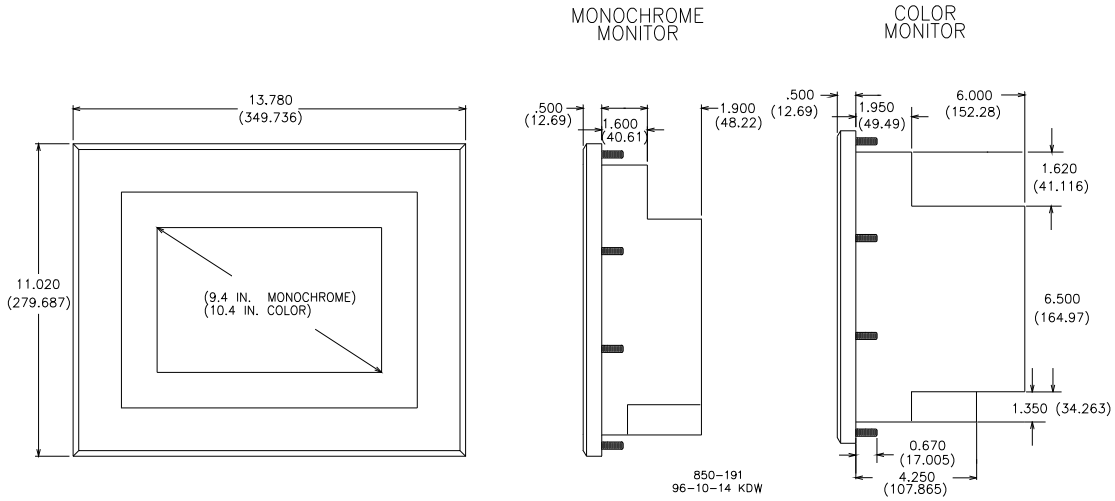
It is not recommended that these chemicals be applied for long periods of time.



Sample OpView™ Operator Interface Screens



Typical Control/OpView Application



OpView™ Operator Interface Outline Drawing
(Do not use for construction)

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