

Smart Process Plant

Real World Process Applications

Distributed Control System (DCS)

Smart Process Technology Learning

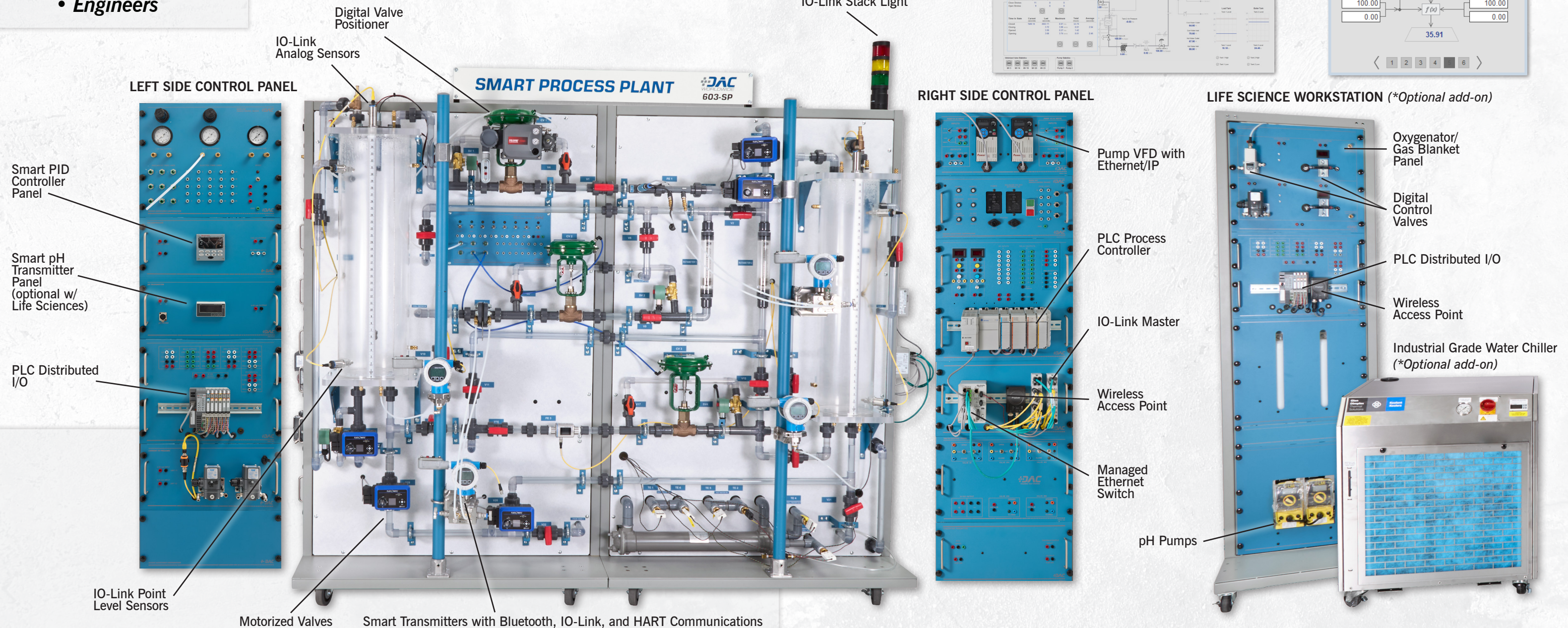
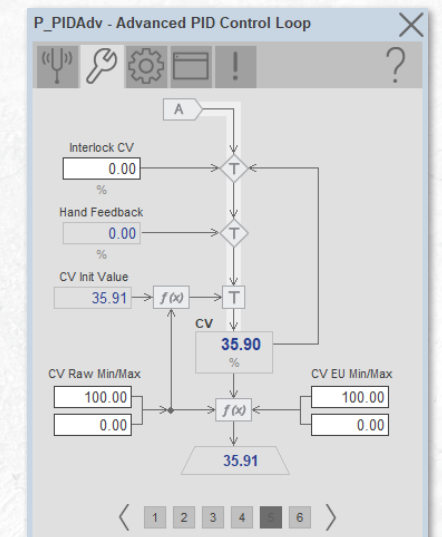
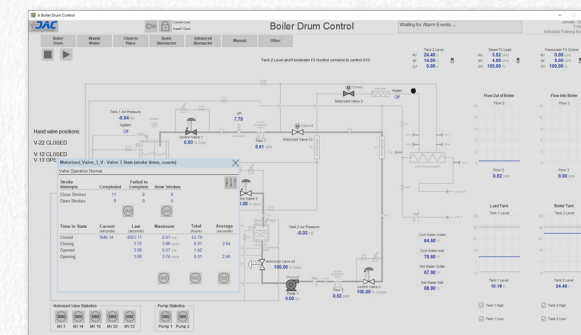
The Smart Process Plant Training System teaches multi-variable instrumentation and process control and smart process technology, using pressure, flow, temperature, level, and pH. The 603-SP is easily reconfigured to model different real world applications. This industrial simulator can be used for training:

- Operators
- Technicians
- Engineers

Real World Applications

- Basic Bioreactor
- Advanced Bioreactor
- Clean-In-Place (CIP) Skid
- Boiler Drum Level
- Wastewater Treatment

The Smart Process Plant uses a Distributed Control System (DCS) that features Rockwell Automation's PlantPAX Supervisory Control software, which acts as the backbone of the system to gather and organize data. The software creates dashboards that represent the real-time status of the processes being carried out by the system.



- Smart PID Controller Panel
- Smart pH Transmitter Panel (optional w/ Life Sciences)
- PLC Distributed I/O
- IO-Link Point Level Sensors

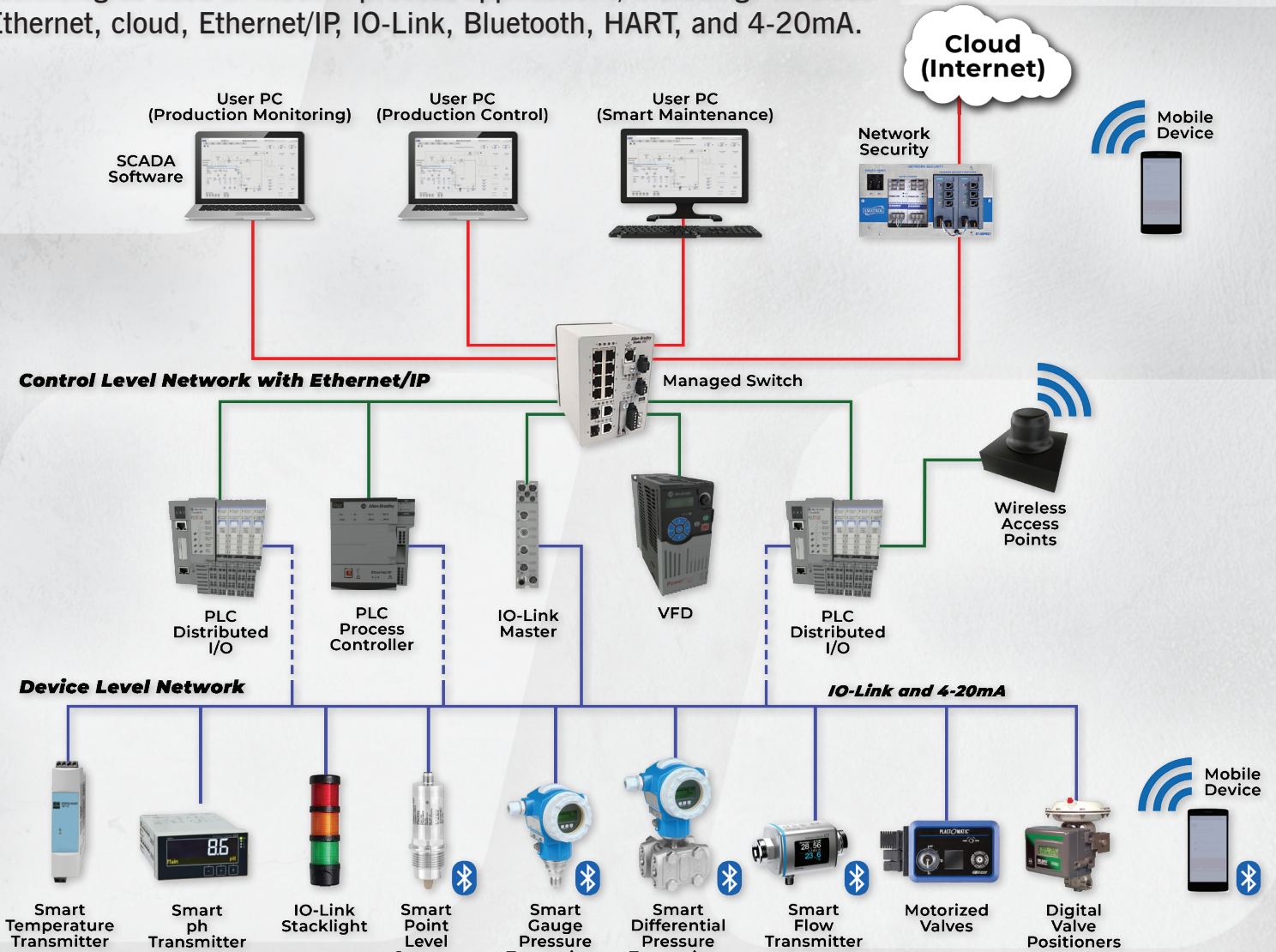
- Digital Valve Positioner
- IO-Link Analog Sensors
- IO-Link Stack Light
- Motorized Valves
- Smart Transmitters with Bluetooth, IO-Link, and HART Communications

- Pump VFD with Ethernet/IP
- PLC Process Controller
- IO-Link Master
- Wireless Access Point
- Managed Ethernet Switch
- pH Pumps

- Oxygenator/ Gas Blanket Panel
- Digital Control Valves
- PLC Distributed I/O
- Wireless Access Point
- Industrial Grade Water Chiller (*Optional add-on)

603-SP Smart Process Network

The 603-SP Smart Process Plant teaches a wide range of communications technologies used in modern process applications, including: wireless Ethernet, cloud, Ethernet/IP, IO-Link, Bluetooth, HART, and 4-20mA.



 Bluetooth Communications
 HART Communications



**See the 603-SP
in action!**

