

OVERVIEW

The WPH410/420 Series pH/ORP on-line process controllers are designed for a broad range of industrial, commercial, and municipal water treatment applications. WPH controllers are easily configured to accurately measure pH or mV (ORP) values from Walchem's WEL and WDS differential combination electrodes, or any conventional combination electrode.

A versatile output configuration allows you to program up to four outputs in a variety of control modes. Select from on/off mechanical relays or pulse proportional control for direct connection to metering pumps. The easy-to-use menu format and pre-wired, pre-mounted panel system options make set-up and installation quick and simple.

Integrated datalogging is available to validate system performance. A USB memory stick is all that's needed to extract data and event logs that include electrode measurements, temperature and relay status. Download log files from the USB stick to a PC at your convenience. It couldn't be easier!



SUMMARY OF KEY BENEFITS



Versatility for a Broad Range of Applications

Select from pH or ORP measurements and from five output options. Use *In-Range* to control a solenoid valve to dump a batch treatment tank when measurement value is within limits, or program for *Out-of-Range Alarm* in waste treatment applications when the measurement value is too high or low.



Ideal for Harsh Environments

The NEMA 4X enclosure, combined with Walchem's WEL and WDS electrodes, provides a waterproof system with no BNC connectors exposed to wet or corrosive environments.



Built-in Safety Features

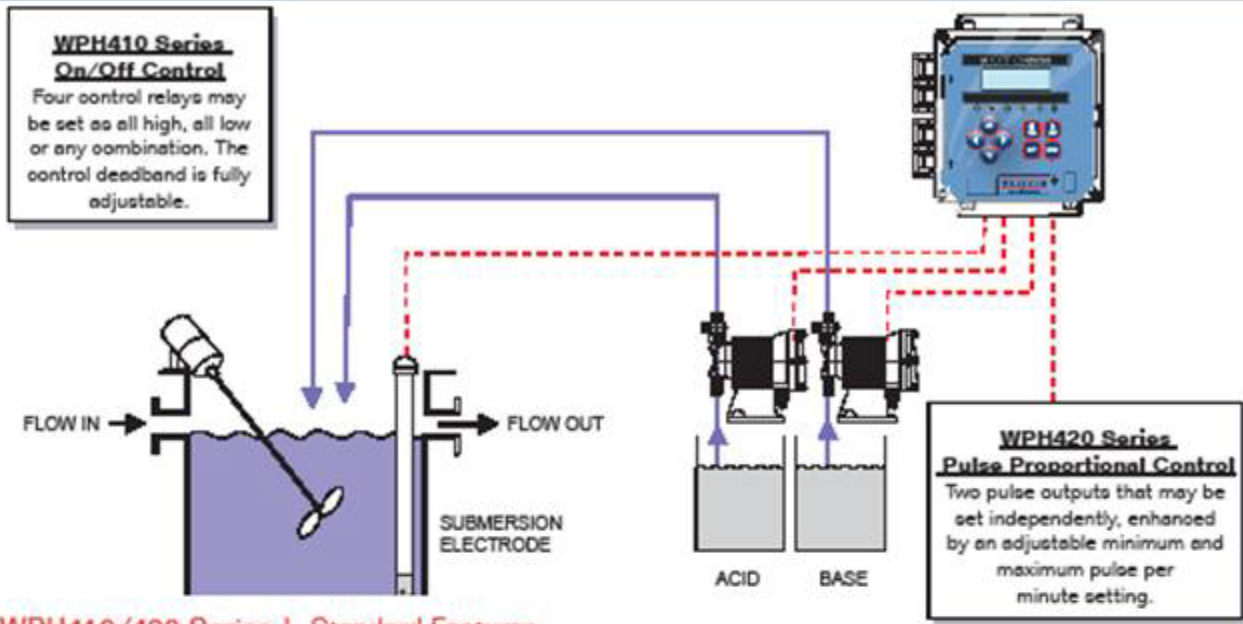
Programmable output limit timers prevent run-away chemical addition. Digital Interlock Input may be used from a flow switch or level input to prevent chemical addition based on a stagnant sample, or control of an empty batch tank.



Simple, Integrated Data Collection

Download stored data from the controller to a USB stick with the press of a button. Use the data to simply and easily validate system performance, document compliance, and reduce liability. The data and event logs show pH/ORP and temperature values, as well as accumulated chemical feed and relay activation times.





WPH410/420 Series | Standard Features

- **pH or ORP Measurement**
 - Configurable via a software menu setting.
 - Reduces inventory requirements.
- **Versatile relay configuration**
 - Control outputs can be set as high or low set points via keypad. Auxiliary outputs can be set as:
 - High alarm
 - Low alarm
 - In-range output
 - Out-of-range alarm
 - Probe wash
- **Probe wash feature**
 - For applications that require frequent electrode cleaning, automatic probe wash stretches out reliable measurement life between maintenance interruptions.
- **4-20mA Output**
 - Internally powered and fully isolated, for connection to WebAlert, PLC or other devices.
- **Self diagnostic**
 - Software and electronics are constantly monitored without having to take the controller off-line.
- **Auto buffer recognition**
 - Software selectable for U.S. or European calibration standards.
- **Self test**
 - Menu selectable self-test simulates pH and temperature signals, allowing for quick diagnosis of sensor or controller problems.
- **Differential pH**
 - WDP and WPH Series controllers are a perfect match with Walochem's WEL pH/ORP sensors - offering an extremely reliable differential measurement technique immune to any possible ground loop problems. Together, they provide a true NEMA 4X system with no BNC connector exposed to wet or corrosive conditions. WEL pH/ORP electrodes are easily removed and replaced without any tools.

Optional USB Features

- Integrated datalogging collects analytical measurements at 10 minute intervals and captures all relay activations.

