

pH Triggered Control Start

For a process with a two-sided pH control it is often required to activate the pH control only after the initial pH value is below a predefined pH threshold value (trigger condition). Quite frequently, this threshold value is chosen as the set-point value of the pH controller. This activation method of the pH control ensures that the initial pH, which usually lies above the set-point value at start, is not lowered immediately by addition of a corrective agent like acid. Addition of acid will only start eventually after the pH value falls below the threshold value and activates the pH control.

After the process start the pH control remains inactive. Only when the trigger condition is fulfilled, the controller is activated and the profile is started. The pH controller can be switched off at any time independently – even after the trigger was already activated. However, the pH control can not be switched on without an activated trigger.

