



M&D pH solutions

the power of hydrogen

QUALITY pH INSTRUMENTATION
& CHEMICAL FEED SYSTEMS

Why do companies call Murphy & Dickey more than any other for pH measurement solutions? Experience. Our project logbook includes successful application of pH instrumentation and chemical feed systems in process control, potable water, wastewater neutralization, scrubbers, plating, circuit board manufacturing, food beverage, chemical processing, pulp & paper, mining, power generation, pharmaceutical.

pH Control? Keep It Simple!

Remember high school chemistry? During our nap, the teacher taught the other students “The concentration of the hydrogen ion is a measure of the acidity or basicity of a solution. We express the concentration of the hydrogen ion in terms of the negative logarithm of the hydrogen ion concentration. This is called the pH of a solution.” Guess what? Operators don’t need to know this to have good pH control! *If you have a system that is too complicated, re-think it or replace it.* There are more options today than ever before.

Consider this guideline: The key to pH control is (1) a good sensor that is chemically compatible with the process, (2) a strong output signal, (3) integral cable that uses proper shielding as recommended by the manufacturer,

(4) a controller with easy-to-program functions and outputs required to activate a pump or output to a control system, (5) off-the-shelf replacement parts, (6) people you can talk to who want to make it work right the first time.

Sensor selection changes with application. For plating and wastewater applications, differential pH sensors generally last longer. The salt-bridge junctions can be changed.

Pharmaceutical batch processes often require insertion-style sensors that can work in high temperatures for a short period of time.

Simple pH loops are easier to install, maintain and troubleshoot. Now that’s something we can understand. And, if we can understand it, we can teach someone else. Want to hear more of the story? *Contact: Murphy & Dickey, 630-655-1080.*



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WHAT’S RIGHT FOR YOU?

Murphy & Dickey, Inc. has provided pH monitoring to major chemical facilities, refineries, water and wastewater treatment plants for over 40 years. Over 20,000 in Northern Illinois alone! If you have an application, our team can help you choose a solution that is right for you. We work with experts in pH measurement and chemical feed systems to ensure the very best solution for our clients. Consider Murphy & Dickey for single-point monitoring in a treatment tank or multi-stage pH control system with pumps, tanks mixing and flow control. www.murphyanddickey.com