

# 2026 Hydrogen Peroxide Analyzer

## From Metrohm Process Analytics

Hydrogen peroxide ( $H_2O_2$ ) is a strong oxidizing agent and a bactericide. Its decomposition does not form any harmful disinfection byproducts (DBPs), but rather water and oxygen. This property makes it an attractive chemical replacement for other oxidizing agents, such as chlorine ( $Cl_2$ ), which is an irritant and can cause health problems like asthma via long-term exposure. Some of the main uses of  $H_2O_2$  are in the production of organic peroxides (e.g. propylene oxide), as a bleaching agent especially in the pulp & paper sector, and as a disinfectant in the food & beverage industry.

Because of its role in many different (production) processes, it is of vital importance to closely monitor the concentration. The **2026 Hydrogen Peroxide process analyzer** from Metrohm Process Analytics is the most straightforward and easy-to-use tool to do so online.

### About the Hydrogen Peroxide application

$H_2O_2$  is determined via potassium permanganate titration. The detection is performed with a Metrohm platinum electrode. The analyzer is able to handle a wide range of  $H_2O_2$  concentrations, from **mg/L to g/L**.



## Benefits for online analysis

- Protect expensive company assets by monitoring your processes
- Process data available at your fingertips 24/7 means no waiting for slow, manual laboratory methods
- Increased safety for employees – no manual sampling necessary, no exposure to hazardous environments
- Save money by reducing downtime: analyzer sends alarms for out-of-specification values which inform the operator sooner

## Applications for $H_2O_2$

- ... in CMP slurries / (semiconductors/PCB)
- ... in production of detergents / (chem./personal care)
- ... as a disinfectant / (food & beverage/cooling towers)
- ... as an oxidant in process / (chemical)
- ... in cosmetics (toothpaste, hair dye) / (personal care)
- ... in wastewater treatment processes / (wastewater)
- ... in the Chemical Dilution System / (semiconductors)

## $H_2O_2$ analysis performed safely online

- Hydrogen peroxide ( $H_2O_2$ ) can be measured in 1 or 2 sample streams
- Compact footprint for tight industrial spaces: 326 x 273 mm
- Safe, rugged enclosure designed to IP66 specifications is ideal for process environments
- A 7" full color touchscreen shows trend graphs and allows action modifications
- Remote access and control via Ethernet and Modbus TCP/IP, with USB for data export
- Easy maintenance due to simplicity of the layout
- Automatic data and/or alarm transfer to a DCS system



For more information, visit our website: [www.metrohm.com](http://www.metrohm.com)

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