Municipal Water & Wastewater

Barben Analytical pH / ORP Applications | Adaptive Industrial Solutions

Documented Municipal Applications

Barben Analytical identifies **Municipal Water & Wastewater** as an industry for its Performance Series pH / ORP sensors and specifically lists **coagulation, aeration basin, and outfall** applications.

Application	Measurement Role
Coagulation	pH / ORP measurement for municipal water and wastewater process control.
Aeration Basin	Submersible pH / ORP measurement in open-basin wastewater applications.
Outfall	Final pH / ORP monitoring in municipal effluent and discharge applications.

Why Performance Series Sensors Fit Wastewater Service

Barben describes its Performance Series as combination pH / ORP electrodes for harsh industrial measurement. Its patented **Axial Ion Path®** reference is designed to address common reference failure modes including chemical attack, particulate plugging, and electrolyte contamination. Barben also lists sulfides, H2S, ammonia, high particulates, elevated temperature, and pressure among conditions where these sensors are used.

Installation Options Relevant to Wastewater

Model 546: Suitable for in-line and submersible service. Barben specifically describes the 546 as an option for submersed applications in open vessels and offers jet-cleaner and brush-cleaner accessories for installations where sensor fouling is a concern.

Models 547, 551 and 567: Provide additional insertion, quick-change, and retractable hot-tap options for applications where direct process installation or easier removal for cleaning and calibration is desired.

Key Customer-Facing Points

• pH and ORP measurement for coagulation, aeration basins and outfalls
• Axial Ion Path® reference technology
• Designed to resist reference poisoning and particulate plugging
• Options for submersible, in-line, quick-change and retractable installations
• Compatible with major manufacturers' pH analyzers and transmitters
• Multiple sensor body, glass, seal and process-connection options for demanding applications

Source Note

This AIS reference sheet summarizes documented application and product information published by Barben Analytical. It is intended to help organize the Water & Wastewater section of the Adaptive Industrial Solutions website. It is not a Barben application note and does not replace manufacturer datasheets, installation instructions, or application review.

Adaptive Industrial Solutions

Sales@adaptiveind.com | (877) 818-5009 | www.adaptiveind.com