

RTC-P MODULE REAL-TIME PHOSPHORUS CONTROL SOLUTION

Applications

- Municipal Wastewater
- Industrial Wastewater



Chemical Phosphate Removal. Under Control.

Hach®'s RTC-P System optimizes chemical phosphorus removal by adjusting chemical dosing in real time through the continuous measurement of phosphate concentration and flow, allowing you to maintain consistent effluent phosphorus values and enhance your chemical phosphorus control system for unprecedented chemical savings.

Maintain compliance based on stable phosphate discharge values

Adjusting precipitant dosing based on real-time data makes your process more consistent. The RTC-P system continually monitors phosphate levels in your water and responds automatically to load changes, keeping your facility compliant. Controlling your process has never been so simple.

Save money on treatment

The RTC-P module is preprogrammed with algorithms that adjust precipitant dosing rate to maintain your desired phosphate effluent concentration. By treating only what's needed you can ensure you don't spend more on chemical costs than absolutely necessary.

An off-the-shelf system

Using a turn-key solution with instruments and technology designed to work together means the RTC System is quickly installed and ready to give you control of your phosphorus levels.

Predictive diagnostics

Prognosys is a predictive diagnostic system that allows you to be proactive in your maintenance, by alerting you to upcoming instrument issues. Know with confidence whether changes in your measurements are due to changes in your instrument or your water.

When we say Service, we mean Service!

A complete Service package includes local field service experts to provide routine maintenance visits and warranty repair, plus a team of remote technical experts with the ability to monitor your system to ensure optimum performance. It's like having a Hach Technician right there with you at the facility.



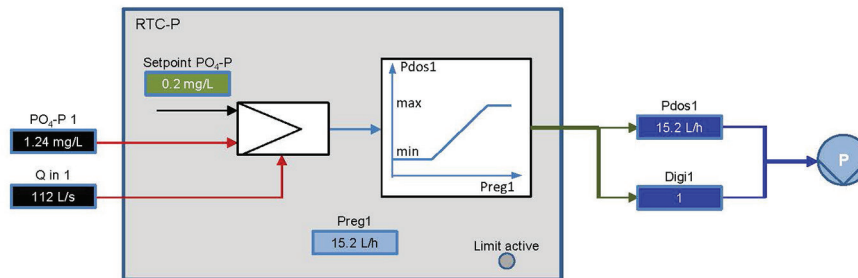
Principle of Operation

The RTC-P (Phosphate Removal Real Time Controller) controls the $\text{PO}_4\text{-P}$ concentration based on the continuously measured $\text{PO}_4\text{-P}$ concentration and the waste water flow rate. The RTC-P considers the biological phosphorous uptake and calculates the minimum amount of precipitant required to ensure the $\text{PO}_4\text{-P}$ setpoint.

The RTC-P can be operated either in an open loop control or in a closed loop control mode.

If input signals inflow or $\text{PO}_4\text{-P}$ are not available the system automatically switches to fallback strategies.

The RTC-P control software can be combined with other control software modules and has to be hosted by a specific hardware.



Order Information

RTC-P Module

- LXV407** RTC-P Module, complete solution, incl. software & hardware.
Control module for automatic, load-dependent precipitant dosage for phosphate elimination.
Available as 1- or 2-channel version.
- LXZ515** RTC-P Module, software only. To be used with LXV515.
Control module for automatic, load-dependent precipitant dosage for phosphate elimination.
Available as 1- or 2-channel version.
- LXV515** IPC Hardware

Please note: Using RTC Module requires SC1000 controller and RTC card.

Be certain in your control with a first class Service Partner. Be confident with Hach Service.

Hach's Commissioning Service for RTC provides the insurance that your complete Real Time Control solution is installed and configured properly as well as optimized efficiently. During the commissioning period (Start Up phase, Commissioning phase, Hand over phase), Hach will thoroughly monitor your system and review and analyse your data remotely in order to provide guidance to optimize your RTC at its highest performance and efficiency levels for your application.

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