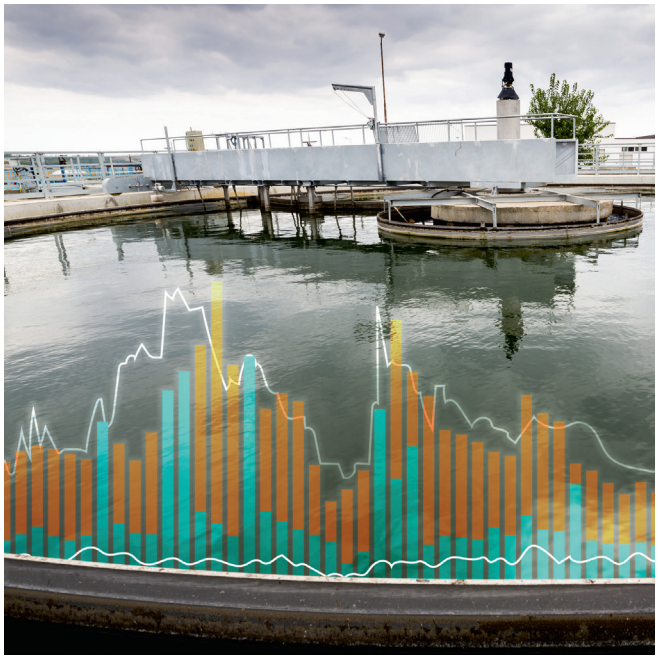
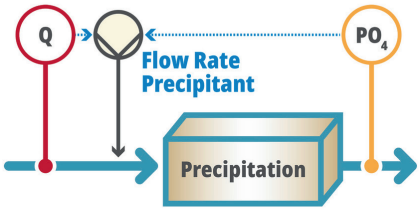
# RTC-P Module Real-Time Phosphorus Control Solution

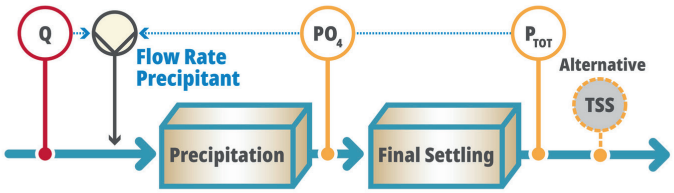
**Applications**
- Municipal Wastewater
- Industrial Wastewater



RTC-P CL




RTC-P CLCL

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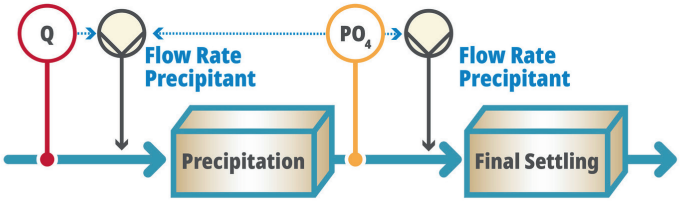



## How do you ensure your precipitant dosing rate matches your actual phosphorus load?

Hach®'s RTC-P System optimises 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.

### Compliance now

RTC-P doses just enough to meet your Total Phosphorus (TP) limit 24/7, no matter the conditions.

### Direct fit

RTC-P is a customizable solution that works within your existing infrastructure.

### Increased visibility

Understand your system's current performance with a glance at the dashboard, or delve into the factors that affect your phosphate removal process by generating a historical report.

### Compliance in the future

Meeting stricter regulations or seasonal setpoints is as simple as a change to your software settings.

### Greater efficiency

No more overspending on precipitant, no more overproduction of sludge, no more elevated alkalinity demand to threaten your nitrification process.

The power of Hach's real time controls (RTC) software is now hosted on the SC4500 controller. Take advantage of the potential energy, chemical and labor savings, from a simple and environmentally friendly solution.

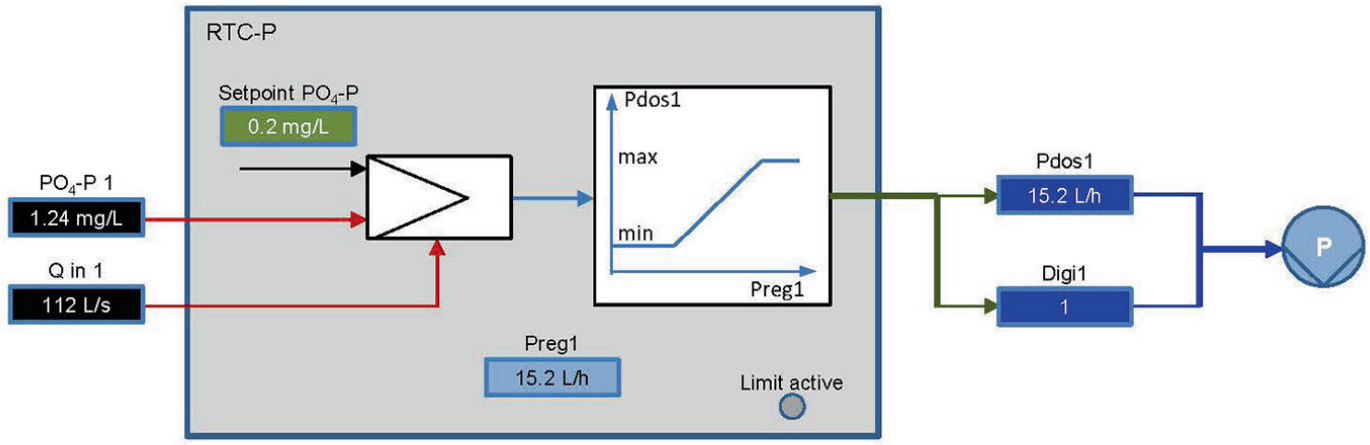
## Principle of Operation

The RTC-P (Phosphate Removal Real Time Controller) controls the $PO_4$-P concentration based on the continuously measured $PO_4$-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 $PO_4$-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 $PO_4$-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 - SC1000

**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.

*Using RTC Module requires SC1000 controller and RTC card:*

**LXV400.99.xxxxx** SC1000 controller

### RTC-P Module - SC4500

**LXZ515.99.K1010** SC4500 Control of Chemical Phosphate Removal

*Using RTC Module requires SC4500 controller:*

**LXV525.99xxxxxx** SC4500 controller

### 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 optimised 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 optimise your RTC at its highest performance and efficiency levels for your application.