

Automatic analysis and control device for surface treatment chemicals

# PARKER CHEMICAL CONTROLLER

For easier, more accurate  
chemical control



**THAI PARKERIZING**

Tel +662-324-6600 [www.thaiparker.co.th](http://www.thaiparker.co.th)



Analyze

Replenish

Record

## One chemical controller For all three functions!

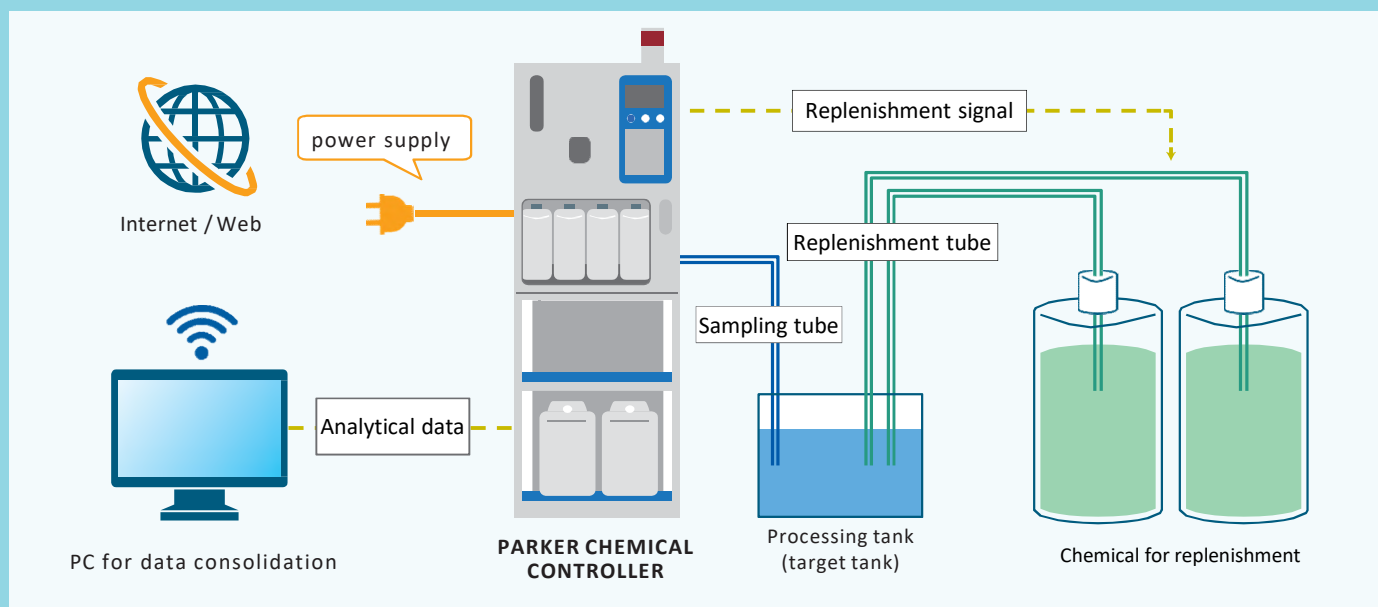
Automatic analysis and management device  
for surface treatment chemicals

# PARKER CHEMICAL CONTROLLER

- Automatic measurement by simple one-button operation
- Measuring method similar to manual analysis
- Automatic correction of chemical concentration by replenishment interlinked with analytical values
- Accurate quality Management by accumulating analytical data
- Widely used in the automobile, steel and electric home appliance industries



### Flowchart of analysis and replenishment





## Analyze

- Reduce operator analytical errors and human-hours
- Reproduces the manual analysis of field operators by combining various analytical method.



Supports a wide range of chemical types by combining various titration methods and sensors

- Analysis methods: Neutralization titration, Redox titration, Chelate titration, etc.
- Sensors: pH sensor, ORP sensor, Absorbance sensor, Colorimetric sensor, Color sensor, etc.
- Support chemical bath: Zinc phosphate, Iron phosphate, Zirconium chemical conversion, Alkali degreasing, Pickling, etc.

(※Consult us about other chemical types and analysis items.)

The automatic washing function for sampling tubes greatly reduce tube clogging by chemicals.

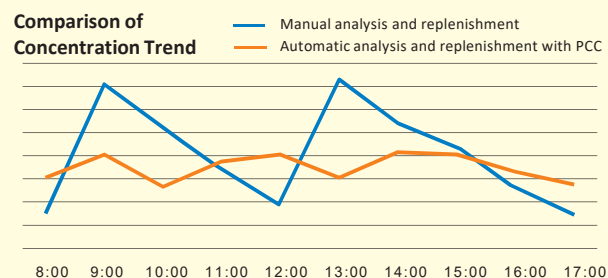
Stable analytical accuracy can be maintained by minimal daily maintenance.

## Replenish (Option)

- Chemicals can be controlled stably by the replenishment method interlinked with analytical values.



**Comparison of Concentration Trend**



※ Manual analysis and replenishment (Analysis and replenishment frequency: twice a day)

※ Automatic analysis and replenishment (Analysis and replenishment frequency: once an hour)

**This product ensures more consistent control of concentration. Excess chemical replenishment is avoided, reducing cost.**

※The replenishment function is an option.

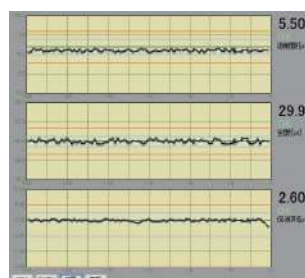
Once unit has three circuits for replenishment signals

## Record (Option)

- Quality management can be improved to one level higher with accumulating analytical and replenishment value data.



- Analytical and replenishment values are printed and displayed on the LCD touch panel immediately.
- Analytical values can be recorded in flash drive.
- The PC monitoring function can check the chemical status from outside a production line, assisting use of the IoT.



※The flash drive recording and PC monitoring functions are options.

## Basic specifications



### Alarm device

In case of a trouble, the unit issues an alarm immediately.

### Touch panel

The 5.7-inch screen displays work processors and analytical results.

### Printer

The printer prints analytical results immediately after measurement. The items to be printed can be selected.

### Analysis unit

The analysis unit is located on the front for easy maintenance.

### Analysis reagent

The reagent can be change by replacing the reagent tube.

### Options

- Replenishment control unit
- Data communication unit
- Flash drive recording unit
- Stainless-steel exterior case
- Reagent level detection unit
- Cleaning water automatic supply unit

## Chemical Controller Mini

For Offline use only



- Sister device of Chemical Controller
- Same analytical system as PCC
- Compact body, easy to carry and install
- Send-back service is available for easy maintenance

Product	Parker Chemical Controller	Chemical Controller Mini
Appearance		
Size	500W × 455D × 1780H(mm) Exterior case: 700W × 580D × 1750H(mm)	300W × 200D × 250H (mm)
Installation place	Online (Line side possible)	For offline use (line side not possible)
Weight	45kg (with empty tank)	5.5kg
Analysis accuracy	Within ± 4%	Within ± 4%
Recommended solution temperature	5°C~95°C	5°C~95°C

※For long-term use, it is recommended to have a maintenance check with a charge once a year.

## For inquiries about the product

### CHEMICAL PRODUCTS & SERVICE

### HEAT & SURFACE TREATMENT SERVICES

### THAI PARKER TECHNOLOGY CENTER

#### HEAD OFFICE

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