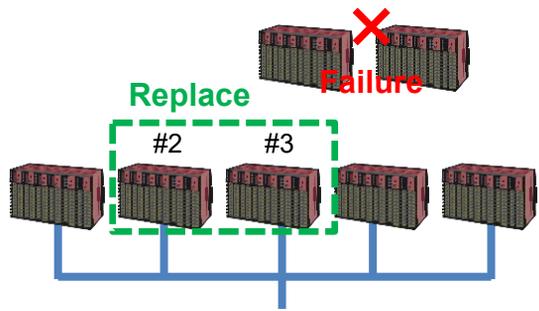
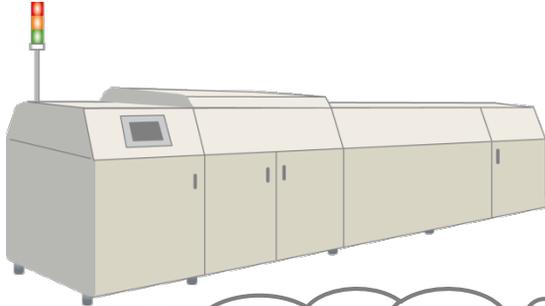


## <Maintenance Tips> Create Backups of Adjustment Data Using the Recipe Function to Make Equipment Replacements Smoother!

Before

When a regulator fails or needs to be replaced, parameter settings were adjusted on site.



There are so many parameters that require adjustment. This is time consuming. But I want to resume operation immediately.



<Situations where this problem occurs>

- There are many channels and related parameters.
- The operation can be stopped for only a short time.
- There are restrictions on bringing PCs to the site.

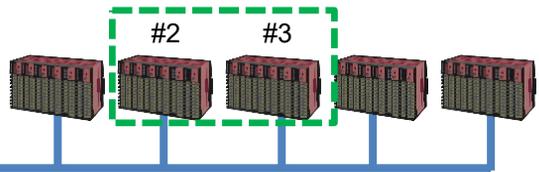
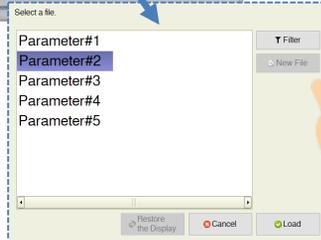
Create backup data using the recipe function and be prepared!

After

Parameter files that have already been adjusted are in storage, so only replacement of the equipment and loading of files is necessary.

Recipe file

Parameter#	Input type	Set Value	Minority position	Event1 setting	Event2 setting	Proportional bands	Integral time	Derivative time	Mode	External collector select
Parameter#1	1	1200	1	2400	100	300	240	60	2	1
Parameter#2	1	100	1	100	60	300	240	60	2	1
Parameter#3	1	1200	1	2400	100	300	240	60	2	1
Parameter#4	1	100	1	100	60	300	240	60	2	1
Parameter#5	1	1200	1	2400	100	300	240	60	2	1



Just select a file and load!  
The time necessary after replacement can be reduced dramatically.

Check the next page for details!



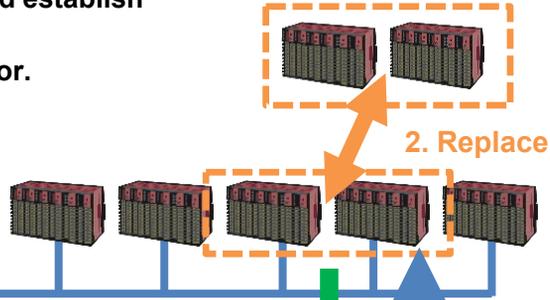
**Operation scheme**

1. After startup adjustment or when the equipment is operating normally, save the parameters of the regulator to an SD card or USB flash drive in advance.
2. Replace the regulator upon maintenance or failure and establish communication with MONITOUCH.
3. Load the backup data to the newly connected regulator.

USB flash drive    SD card

Recipe file (CSV)

Input type		1
Set Value	Input type	1
Minority position	Set Value	1200
Event1	Input type	1
Event2	Set Value	1200
Proportional bands	Minority position	1
Integral time	Event1 setting	2400
Derivative time	Event2 setting	100
Mode	Proportional bands	300
External collector select	Integral time	240
	Derivative time	60
	Mode	2
	External collector select	1



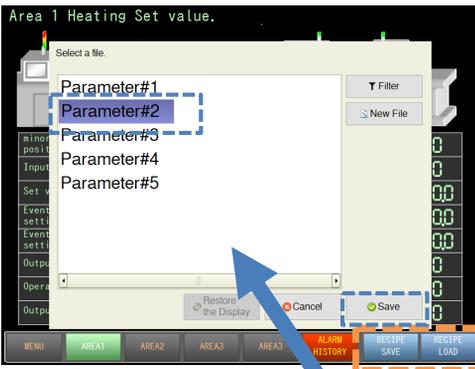
1. When operating normally: Save parameters

3. In case of failure: Load backup data

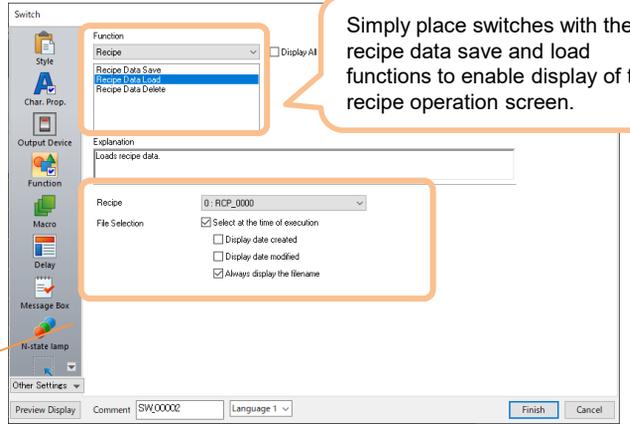
Since I have proven backup data on site, I can work on it as soon as the replacement equipment is available! The required work time is short, so the impact on production is small!



**Easy screen operations**



<Switch function>



Simply place switches with the recipe data save and load functions to enable display of the recipe operation screen.

The operation screen is included in the system, so there is no need to create it.  
\* Recipe settings need to be configured in advance. Refer to "Reference Manual" for setting details.

Settings are easy because there is no need for creating a screen for file selection and operation! Operations are easy to understand because all I have to do is select a file and press a button!



The recipe function is great for managing parameters on the production site!  
Back up on-site data and make maintenance work easy!

