

How to use CountUp function

Revision history of ATTEM		
Version	Date of release	Change
V1.0.1	2015 10/1	-
V1.0.2	2015/10/15	<ul style="list-style-type: none"> - The password of administrator has been changeable on ATTEM Configurator. - The new tool for deleting logged data manually has been included in ATTEM. - It has been able to stop (or reduce) the data sampling to reduce communication traffic to TEM.
V1.1.0	2015/10/30	<ul style="list-style-type: none"> - Several default value of ATTEM Configurator has been changed. - It has been able to output logged data within the specified period. - It has been able to output logged data also as a CSV file. - Width of lines and diameter of points in the graph has been customizable on ATTEM LogViewer.
V1.2.0	2015/11/16	<ul style="list-style-type: none"> - Not only in “Detail”-tab but also in “Summary”-tab, selected date and time has become to be shown as a red line on ATTEM LogViewer. - It has been able to define your own Parameter Group in “Summary”-tab of ATTEM LogViewer. - It has been able to control the number of graphs which are ordered in each line in “Summary”-tab on ATTEM LogViewer.
V1.3.0	2015/11/27	<ul style="list-style-type: none"> - The Y-Axis of each graphs on ATTEM LogViewer has become expandable.
V1.4.0	2015/12/21	<ul style="list-style-type: none"> - It has been able to edit setting-items of multiple TEM-parameters in parallel on ATTEM Configurator.
V1.5.1	2016/5/13	<ul style="list-style-type: none"> - Layout of “Common”-tab has changed on ATTEM Configurator. - It has become able to monitor and log the data of optional sensors. - It has become able to count the number of times of events happened on TEM. - It has been able to create weekly reports or daily reports as pdf files automatically.

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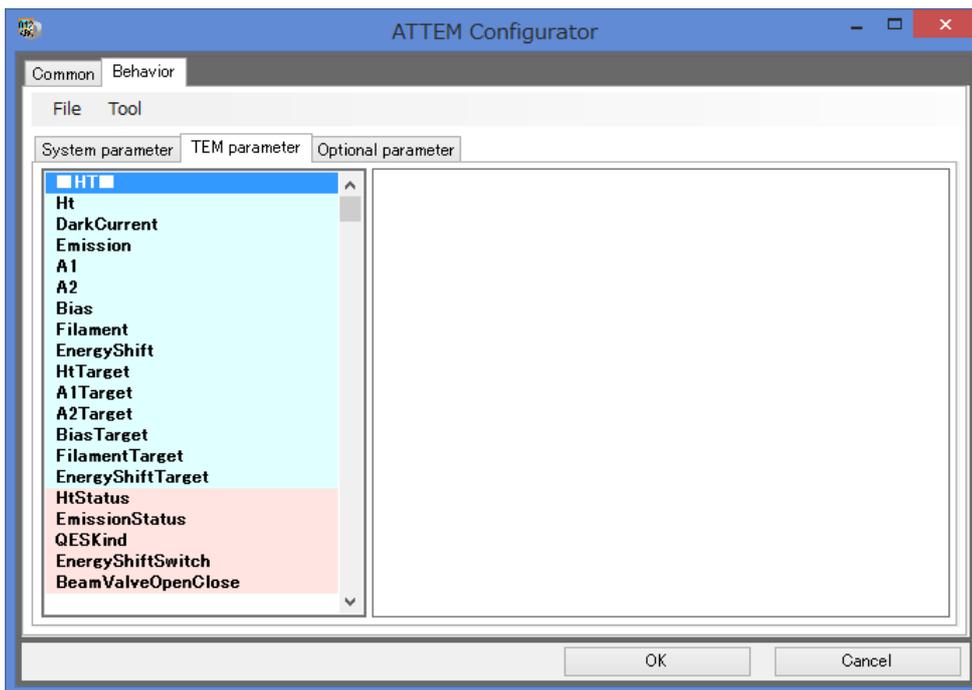
1. Summary

ATTEM can count the number of iterations of user-defined events from V1.5.1.
(For example, open/close of beam-valve, insertion of specimen holder, and so on)
This function is described as “CountUp” in ATTEM.
Each ATTEM-parameter has settings for CountUp function.

2. Example of Configuration

This chapter introduces an example of configuration to count the number of times of specimen holder-insertion by using CountUp function of HolderStatus.

(1) Select “TEM Parameter”- tab from “Behavior”-tab on ATTEM Configurator.



(2) Select “HolderStatus” from the list to display the setting screen of HolderStatus.¹

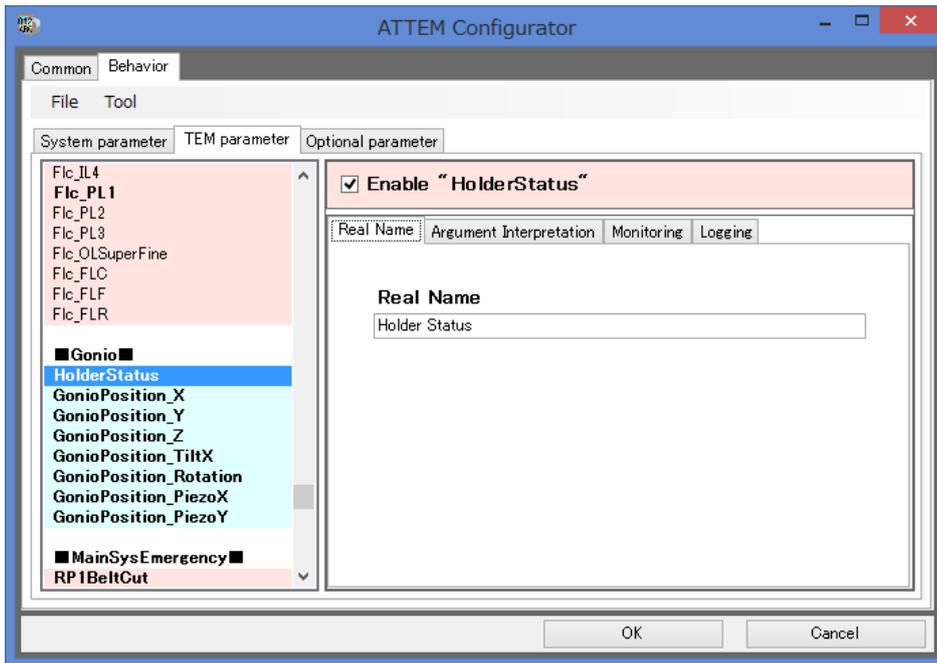


Figure 2-1: Settings screen of HolderStatus.

(3) Check “Enable”-box if unchecked.

(4) Select “Logging”-tab.

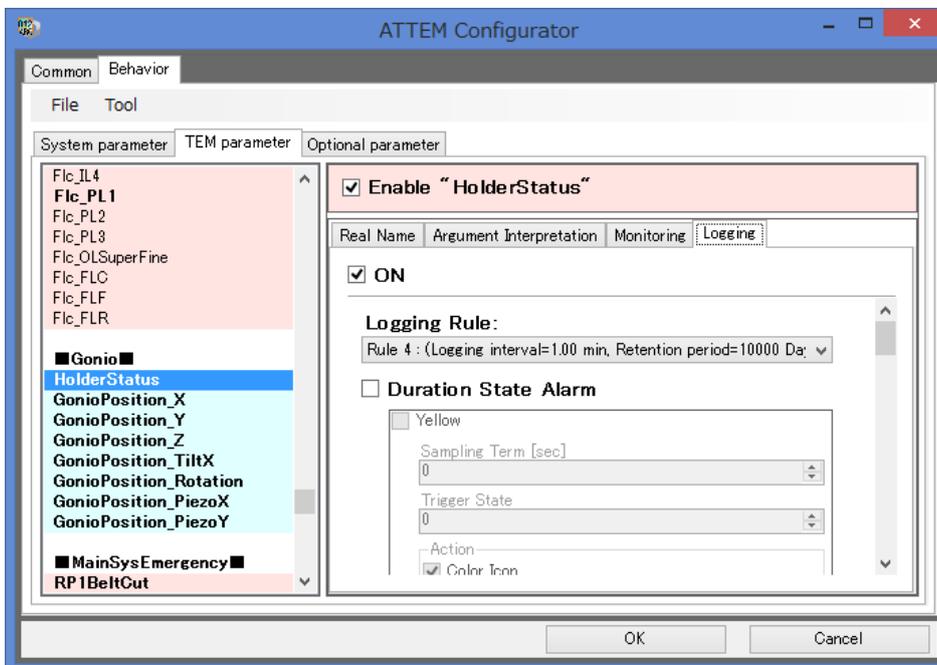


Figure 2-2: “Logging”-tab in the settings screen.

¹ The reason why HolderStatus should be selected here is because the parameter which changes with holder-insertion is HolderStatus.

- (5) Check “ON”-box if unchecked.
- (6) Find setting items of CountUp function by scrolling the tab-page.

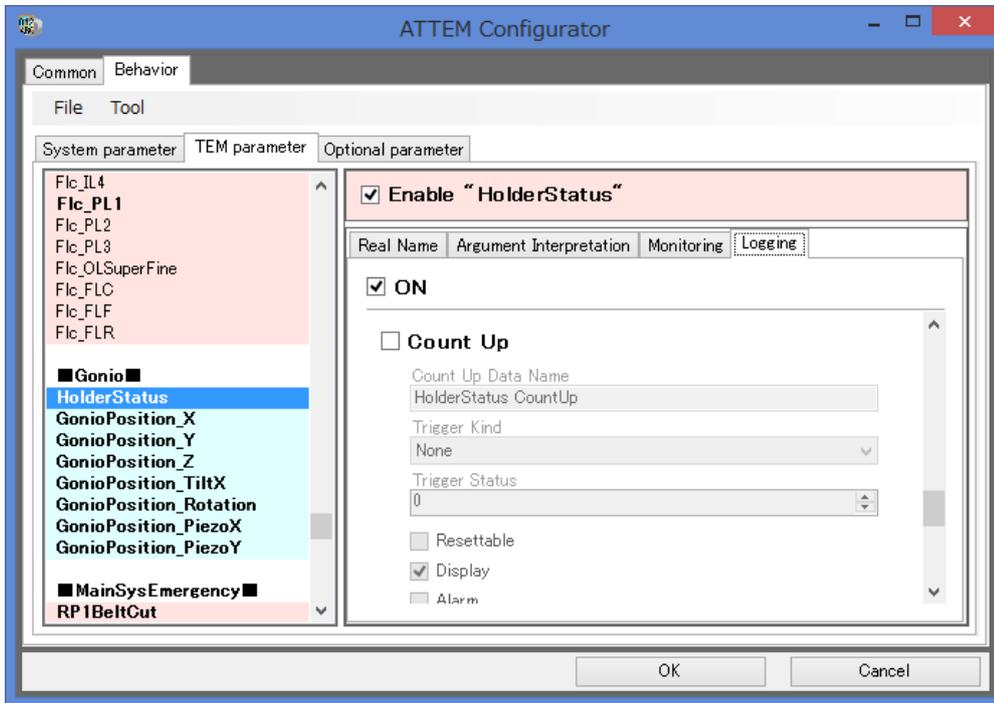


Figure 2-3: Setting-items of CountUp

- (7) Check “CountUp”-box to activate CountUp function and the settings become editable.

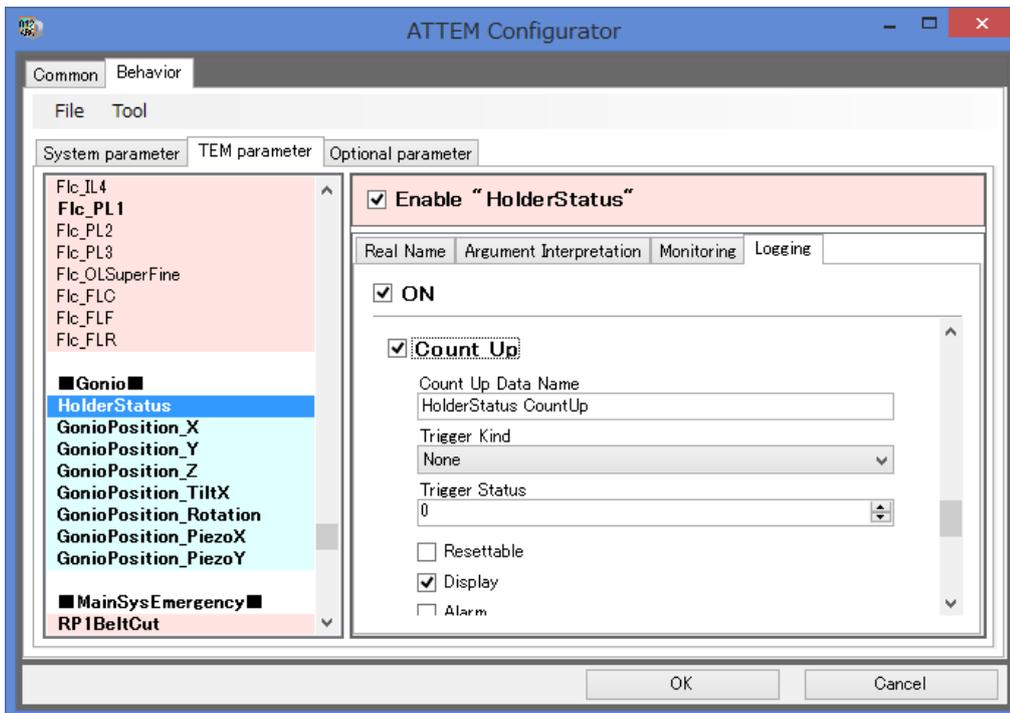
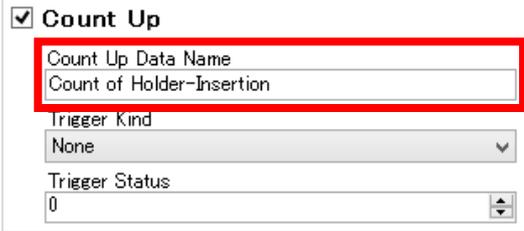
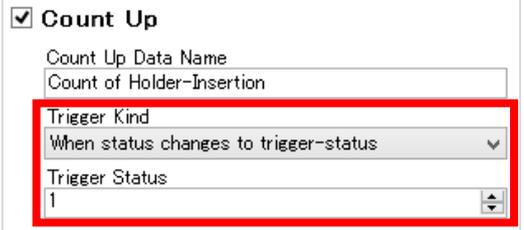


Figure 2-4: Setting items of CountUp function

(8) Configure the settings with reference to Table 2-1.

Table 2-1: How to configure the settings of CountUp function

Count Up Data Name	<p>This is the name which is given to the count.</p> <p>The default name does not make much practical sense. So it's better to give new simpler and less complicated name such as "Count of Holder-Insertion".</p> 
Trigger Kind	<p>These are the conditions to increment the count.</p>
Trigger Status	<p>To set ATTEM to increment the count when the state of HolderStatus changes to "IN", "Trigger Kind" should be set to "When status changes to trigger-status", and "Trigger Status" should be set to "1"².</p> 

(9) Click "OK"-button to save settings.

(10) Restart ATTEM Monitor to reflect settings.

² To confirm that "1" means "IN", refer to "Argument Interpretation"-tab in the settings screen.

3. Display CountUp on ATTEM Monitor

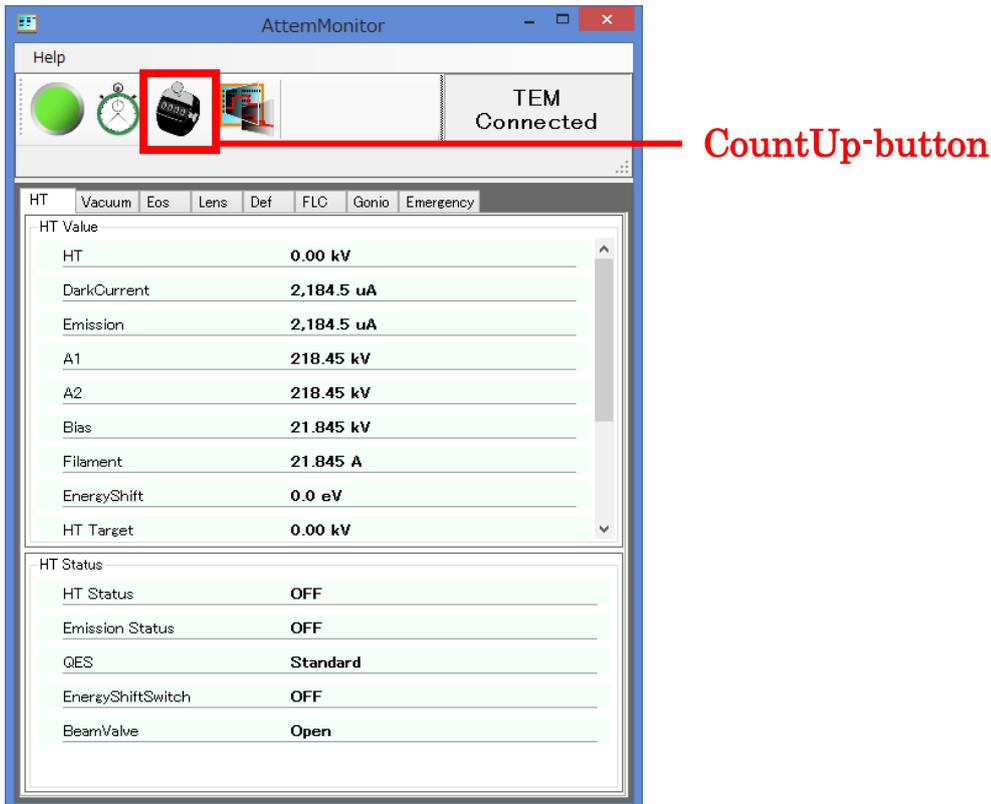


Figure 3-1: CountUp-button on ATTEM Monitor

(1) Click CountUp-button on ATTEM Monitor.

Then a new window will appear, in which CountUp-datas are listed.

Reset	Subject	Data Name	Count	Recording Period
Can't	Holder Status	Count of Holder-Insertion	3	2016/05/20 19:09:49 - 2016/05/20 19:29:46

Figure 3-2: CountUp-datas listed in the screen