

# Notice of updating MVS08 measurement software

[PC Application/Firmware: Ver1.0.0.36]

We have updated the software for MVS08, an In Mold Measuring System, mold marshalling system, injection molding monitoring system. The following describes how to download and update, and the changes made.

## ■How to Download

1. Please access the In-Mold Measuring System dedicated website by clicking on the link below.

<https://mms.mtb.futaba.co.jp/en/>

2. Proceed to "Download data" → "Software (Enter customer information)" on the upper-right corner of In-Mold Measuring System website.

3. Download ZIP of MVS08 measurement software. 1.0.0.36, decompress it, and place it on the desktop.

## ■How to Update the Firmware

1. Open the folder that was placed on the desktop using the "How to Download" above and start the software.

Measurement software:  MVS08.exe

2. Please connect PC to MVS08. ※Refer to the instruction manual for the connection method.

3. Select "System"→ "Firmware Update" in the upper left of the measurement software.

4. Check and select the latest firmware file and click "Firmware Update".

This completes the update and allows you to use the latest function.

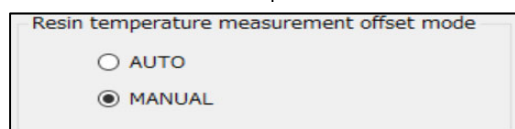
## ■Details of Change

### Change point. 1 Resin temperature measurement offset mode (IR OFFSET) added

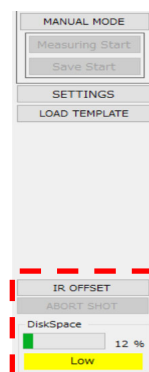
Before change	After change
Offset timing of resin temperature measurement using resin temperature pre-amplifier UPI01 was only at the beginning of the shot.	In addition to the "AUTO" mode, which is the conventional operation, the "MANUAL" mode, which allows manual offsetting at any given timing, has been added. The mode can be switched from "Settings".

#### [Detailed screen]

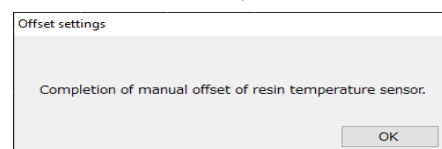
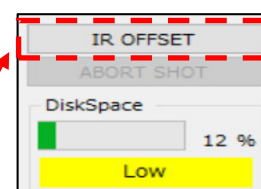
From [SETTINGS], change [Resin temperature measurement offset mode] to the MANUAL



Lower left of measurement screen



Select "IR OFFSET"



## Change point. 2 Minimum unit of measurement time changed from 1s to 10ms.

Before change	After change
The minimum unit of measurement time was 1 s.	The minimum unit of measurement time is changed to 10 ms.

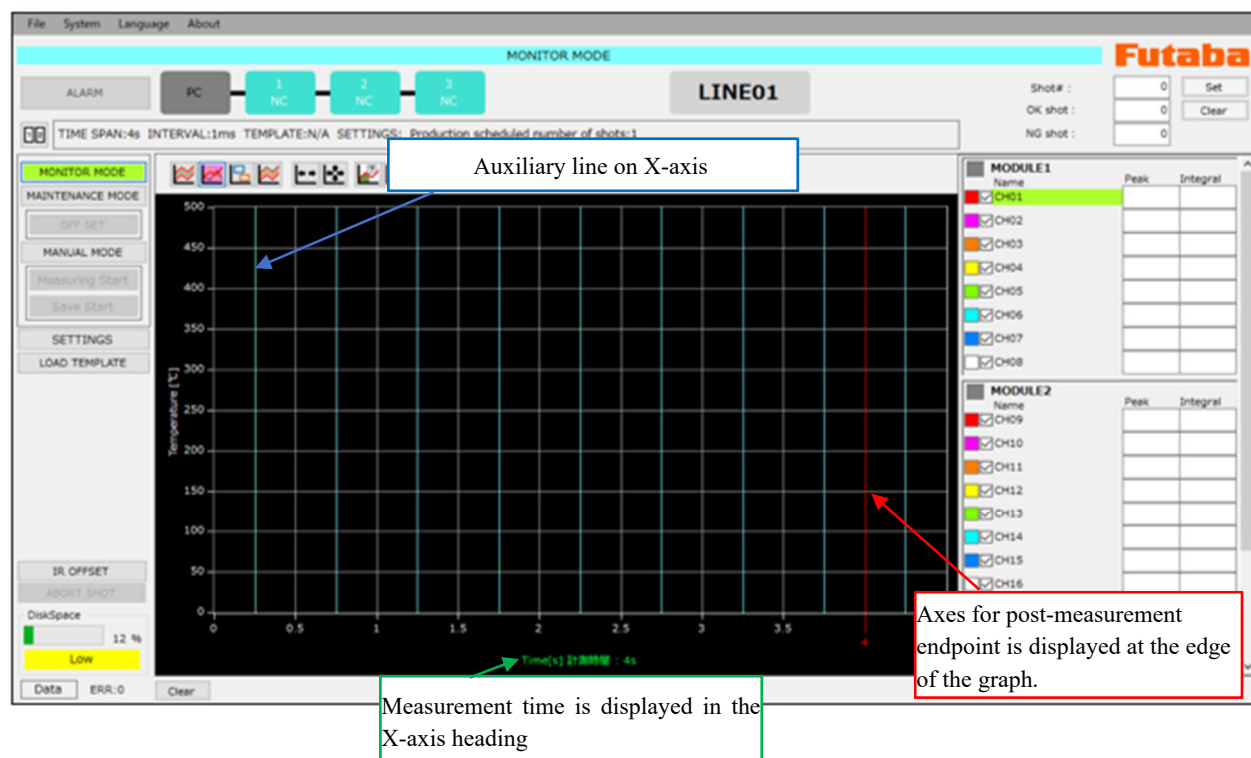
## Change point. 3 Measurement time display setting added to display settings

Before change	After change
There was no function to change the axes or colors of the graph in the display settings.	From the "System" → "Display setting" in the upper left, it is possible to select whether to display the measurement time as the width of the X-axis of the graph or to add an end axis for the measurement time, and to display auxiliary lines on the X-axis and measurement time in the X-axis heading. The color of each can now be changed.

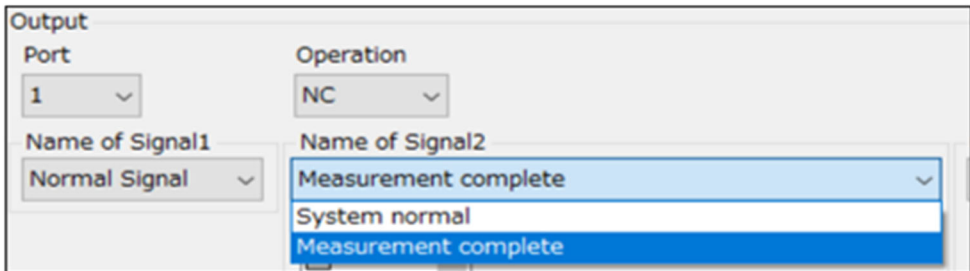
[Detailed screen]



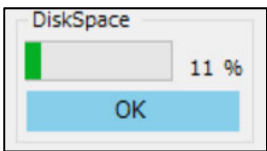
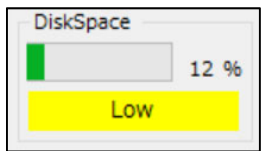
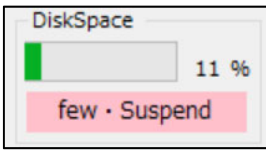
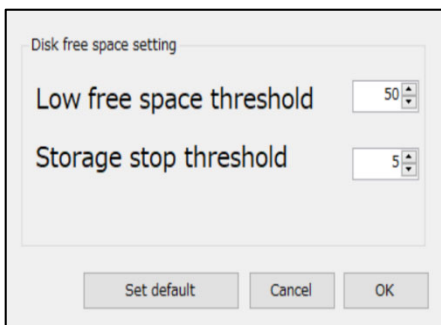
- Displaying a graph by adding the measurement time end axis  
→ Additional axes for post-measurement endpoints can be displayed at the edge of the graph.
- Displaying auxiliary lines on the X-axis of the graph  
→ Additional auxiliary lines can be displayed on the X-axis of the graph.
- Displaying the measurement time in the X-axis heading of the graph  
→ Additional measurement time can be displayed in the X-axis



#### Change point. 4 Addition of normal signal and measurement completion signal

Before change	After change
The output signal indicating that there is no abnormality in the equipment was not implemented.	"Normal signal" has been added to the "Output signal" so that it can be confirmed that there is no abnormality with the "Measurement complete" and "System normal" signals.
<p>[Detailed screen]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>[Selectable Items]</p> <ul style="list-style-type: none"> <li>• Measurement complete</li> <li>• System normal</li> </ul> </div> 	

#### Change point. 5 Disk free space setting

Before change	After change
It was set to display "low" at 50% or less free disk space and stop saving measurement results at 10% or less free disk space.	From "System Menu" → "Disk Free Space Setting", arbitrary threshold can be set.
<p>[Precautions]</p> <ul style="list-style-type: none"> <li>• Free space "Low" below the free space lowering threshold, and results are no longer saved below the save stop threshold.</li> <li>• By default, the low free space threshold is 50% and the storage stop threshold is 5%.</li> </ul> <div style="display: flex; justify-content: space-around; align-items: flex-end;">    </div>	

#### Change point. 6 Corrects setting of multiple unit offset values using mold surface temperatures

Before change	After change
The actual measurement of the mold surface temperature sensor connected to the same MVS08 should be used as the offset value for the resin temperature sensor. However, the second or later units did not function.	Corrected so that the actual measured value of the mold surface temperature sensor can be used as the offset value for the resin temperature sensor even for the second or subsequent MVS08 units.

#### Change point. 7 Corrected the setting for sensor pressure receiving area less than 1 mm<sup>2</sup>

Before change	After change
When using the UPP01 junction amplifier for pressure measurement to measure pressure, the pressure receiving area of the sensor was calculated as 1 mm <sup>2</sup> when the set value was less than 1 mm <sup>2</sup> .	The minimum value of the sensor pressure receiving area has been changed to 0.01 mm <sup>2</sup> , and the calculation has been corrected even when set to 1 mm <sup>2</sup> or less.