

Dashboard and Real-time Data

This section describes how to use Dashboard to look at real-time data.

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- [Dashboard Getting Started](#)
- [Dashboard: Making URLs and Bookmarks](#)

Dashboard and Live Data Introduction

<https://drams.xina.io/tool/dashboard>

The "Dashboard" display was created to display mnemonics in high density format:

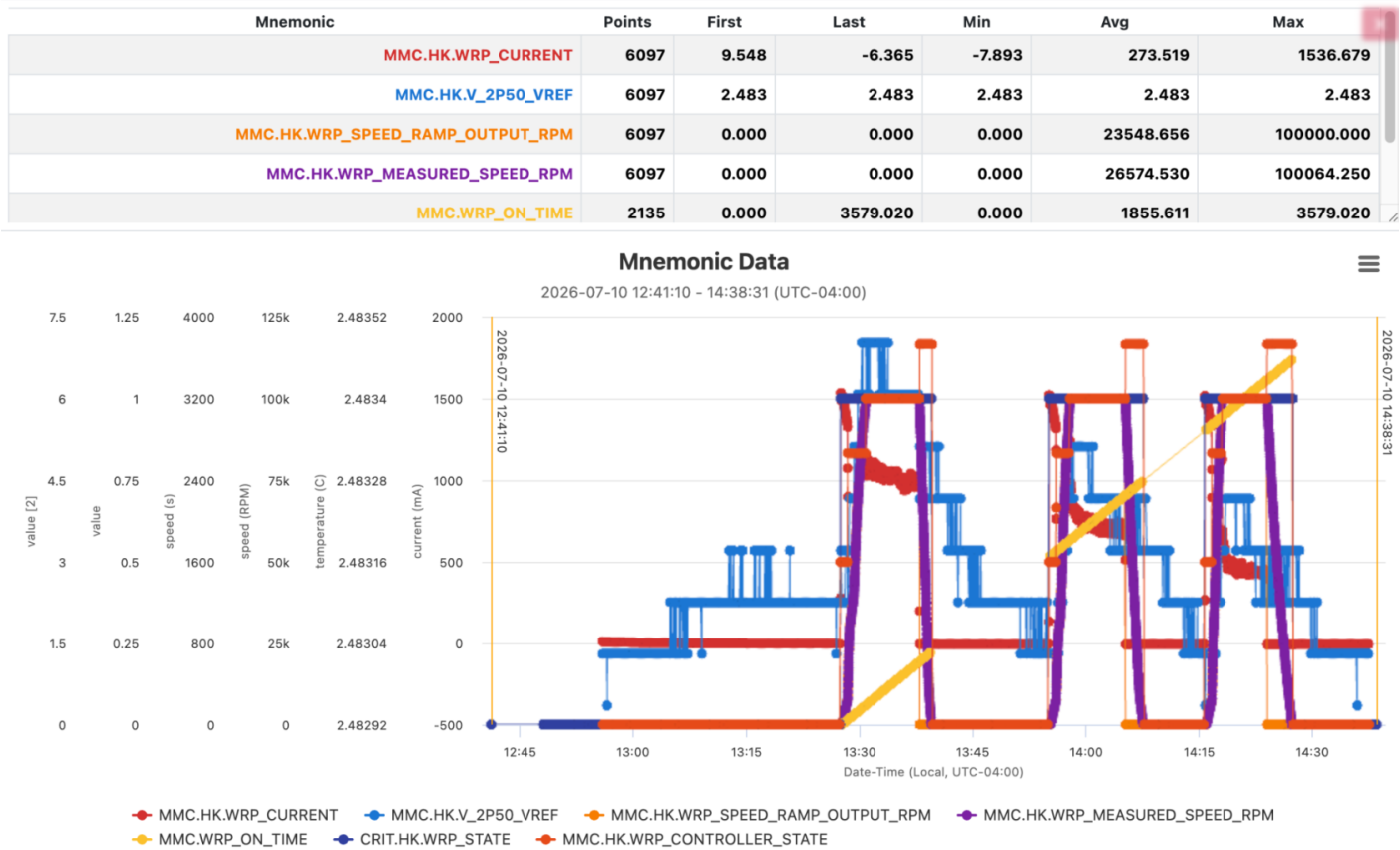
MSP1 Standard View include PM6, aka GPS_PS_02			
MSP1		MSP1 error flags	
MMC.HK.MSP1_AUTO_MODE_ACTIVE	---	MMC.HK.MSP1_HALL_CHANGE_TIMEOUT_ERROR	---
MMC.HK.MSP1_CONTROLLER_STATE	---	MMC.HK.MSP1_MIN_SPEED_ERROR_CASCADE_FEEDBACK	---
MMC.HK.MSP1_CURRENT	--- mA	MMC.HK.MSP1_MAX_SPEED_ERROR	---
MMC.HK.MSP1_HALL_POSITION_COUNT	---	MMC.HK.MSP1_OVER_CURRENT_ERROR	---
MMC.HK.MSP1_MEASURED_SPEED_RPM	--- RPM	MMC.HK.MSP1_OVER_SPEED_ERROR	---
MMC.HK.MSP1_MOTOR_CONTROL_ENABLE_COMMAND	---	MMC.HK.MSP1_TRANSITION_TIMEOUT_ERROR	---
MMC.HK.MSP1_MOTOR_CONTROL_RUNNING	---	MMC.HK.MSP1_CORRUPT_SPEED_ERROR	---
MMC.HK.MSP1_MOTOR_DISABLE	---	MMC.HK.MSP1_BIAS_BIQUAD_1_SATURATION	---
MMC.HK.MSP1_OUTPUT_PWM_DUTY_CYCLE	---	MMC.HK.MSP1_BIAS_BIQUAD_2_SATURATION	---
MMC.HK.MSP1_COMMAND_RAMP_FINISHED	---	MMC.HK.MSP1_BIAS_BIQUAD_3_SATURATION	---
MMC.SC.MSP1_CURRENT_SC	--- mA	MMC.HK.MSP1_BIQUAD1_SATURATION	---
MMC.SC.MSP1_POSITION_SC	---	MMC.HK.MSP1_BIQUAD2_SATURATION	---
MMC.SC.MSP1_PWM_AMPLITUDE_SC	---	MMC.HK.MSP1_BIQUAD3_SATURATION	---
MMC.SC.MSP1_SPEED_LOWER_SC	---	MMC.HK.MSP1_CASCADE_FEEDBACK_OVER_CURRENT	---
MMC.SC.MSP1_SPEED_UPPER_SC	---	MMC.SC.MSP1_BIQUAD_ERROR_CLIPPED_SC	---
CRIT.HK.MSP1_STATE	---	PT.HK.GPS_PS_02	--- Torr

Dashboards were designed around looking at data live -- as it is generated. When data is flowing live, these values will update about every 10 seconds with about a 10 second delay from when they were transmitted out of the instrument. The value displayed is the most recent value.

Dashboards can be configured to have any number of rows and columns containing any DraMS mnemonics.

<https://drams.xina.io/tool/mn>

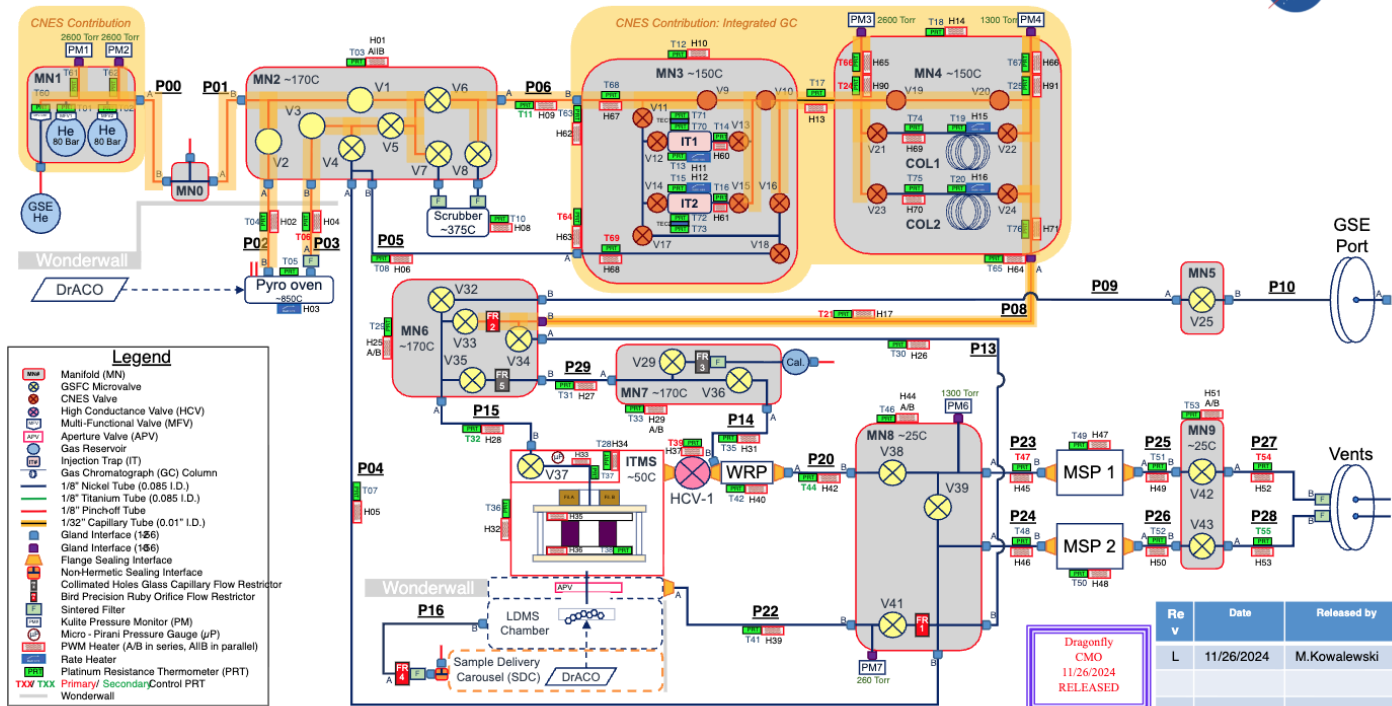
The ""Mnemonic Plot"" tool can be used to plot live data. It can show any combination of mnemonics in a graph as data over time:



The Mnemonic Plot tool can be configured to update live every 10 seconds like the Dashboard. However, it will plot all the intermediate values that were collected in the last 10 seconds. The Menmonic plot tool can also be used to look at data from any arbitrary date and time range.

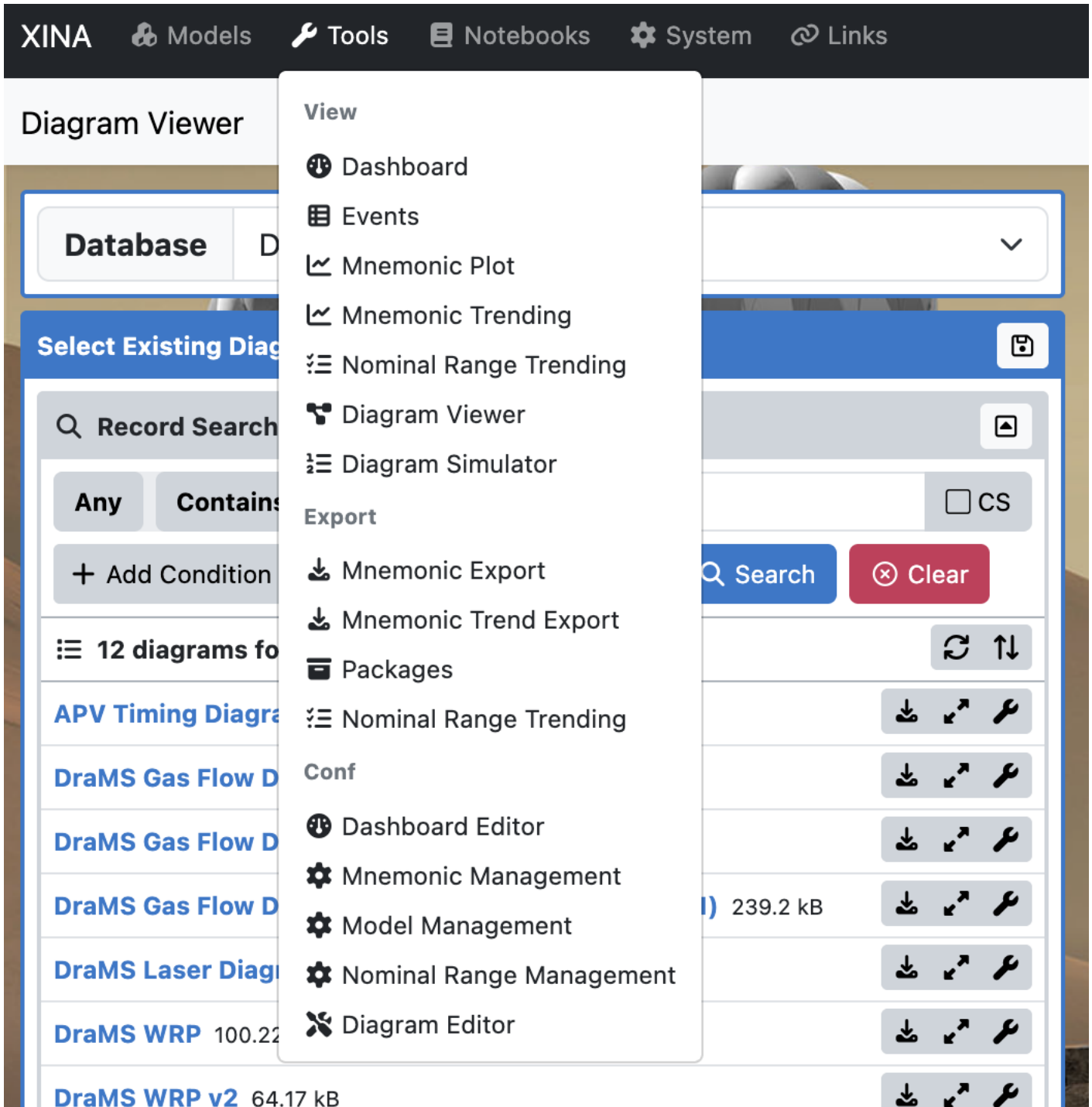
<https://drams.xina.io/tool/diagram>

The ""Diagram Tool"" uses the telemetry to update an SVG diagram of the DraMS gas processing system.



Dashboard Getting Started

<https://drams.xina.io> has several “tools”. Tools can be select from the Tools menu in the main XINA window. However, URLs can be used to jump directly to particular tools. More on that later. The image below shows the tools menu which can be reached from any XINA screen.



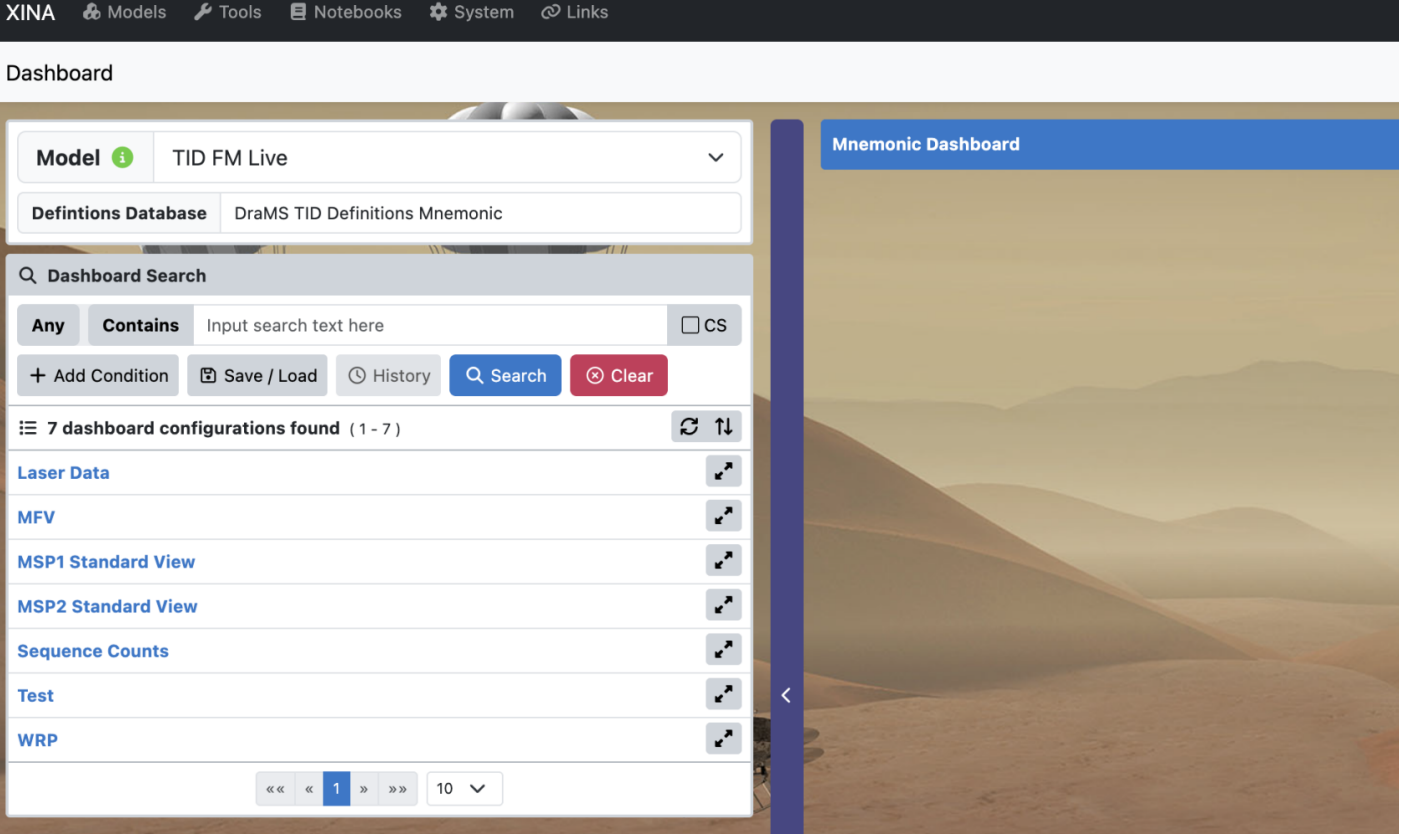
Dashboard How-To

The Dashboard has two different XINA tool, the "Dashboard" (top of the menu) and the "Dashboard Editor" (near the bottom).

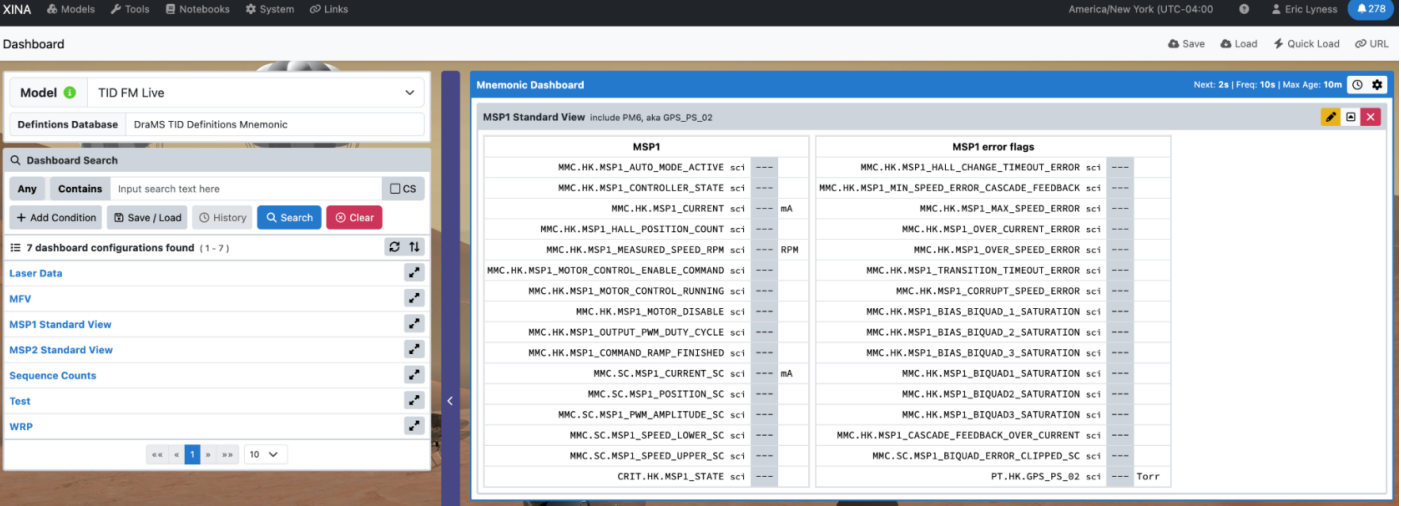
The "Dashboard" allows you to select from predefined groups of mnemonics by name, such as “WRP” or “MSP1”.

The "Dashboard Editor" allows you to create a new predefined group (referred to as a “Configuration”) of mnemonics or edit an existing group.

The starting "Dashboard" view looks like this (you might see something slightly different):



The blue text on the lower left are the names of predefined collections of mnemonics. Clicking one of them will show the table of values. Clicking on “MSP1 Standard View” leads to this view:



Clicking on another configuration will add a table to the view:

XINAModelsToolsNotebooksSystemLinks

America/New York (UTC-04:00)Eric Lyness278

Dashboard

ModelTID FM Live

Definitions DatabaseDraMS TID Definitions Mnemonic

Dashboard Search

AnyContainsInput search text hereCS

+ Add ConditionSave / LoadHistorySearchClear

7 dashboard configurations found (1 - 7)

Laser DataMFVMSP1 Standard ViewMSP2 Standard ViewSequence CountsTestWRP

Mnemonic Dashboard

Next: 1s | Freq: 10s | Max Age: 10m

MSP1 Standard ViewInclude PMS, aka GPS_PS_02

MSP1		MSP1 error flags	
MMC.HK.MSP1_AUTO_MODE_ACTIVE	sc1	---	---
MMC.HK.MSP1_CONTROLLER_STATE	sc1	---	---
MMC.HK.MSP1_CURRENT	sc1	---	mA
MMC.HK.MSP1_HALL_POSITION_COUNT	sc1	---	---
MMC.HK.MSP1_MEASURED_SPEED_RPM	sc1	---	---
MMC.HK.MSP1_MOTOR_CONTROL_ENABLE_COMMAND	sc1	---	---
MMC.HK.MSP1_MOTOR_CONTROL_RUNNING	sc1	---	---
MMC.HK.MSP1_MOTOR_DISABLE	sc1	---	---
MMC.HK.MSP1_OUTPUT_PWM_DUTY_CYCLE	sc1	---	---
MMC.HK.MSP1_COMMAND_RAMP_FINISHED	sc1	---	---
MMC.SC.MSP1_CURRENT_SC	sc1	---	mA
MMC.SC.MSP1_POSITION_SC	sc1	---	---
MMC.SC.MSP1_PWM_AMPLITUDE_SC	sc1	---	---
MMC.SC.MSP1_SPEED_LOWER_SC	sc1	---	---
MMC.SC.MSP1_SPEED_UPPER_SC	sc1	---	---
CRIT.HK.MSP1_STATE	sc1	---	---
MMC.HK.MSP1_HALL_CHANGE_TIMEOUT_ERROR	sc1	---	---
MMC.HK.MSP1_MIN_SPEED_ERROR_CASCADE_FEEDBACK	sc1	---	---
MMC.HK.MSP1_MAX_SPEED_ERROR	sc1	---	---
MMC.HK.MSP1_OVER_CURRENT_ERROR	sc1	---	---
MMC.HK.MSP1_OVER_SPEED_ERROR	sc1	---	---
MMC.HK.MSP1_TRANSITION_TIMEOUT_ERROR	sc1	---	---
MMC.HK.MSP1_CORRUPT_SPEED_ERROR	sc1	---	---
MMC.HK.MSP1_BIAS_BIQUAD1_SATURATION	sc1	---	---
MMC.HK.MSP1_BIAS_BIQUAD2_SATURATION	sc1	---	---
MMC.HK.MSP1_BIAS_BIQUAD3_SATURATION	sc1	---	---
MMC.HK.MSP1_BIQUAD1_SATURATION	sc1	---	---
MMC.HK.MSP1_BIQUAD2_SATURATION	sc1	---	---
MMC.HK.MSP1_BIQUAD3_SATURATION	sc1	---	---
MMC.HK.MSP1_CASCADE_FEEDBACK_OVER_CURRENT	sc1	---	---
MMC.SC.MSP1_BIQUAD_ERROR_CLIPPED_SC	sc1	---	---
PT.HK.GPS_PS_02	sc1	---	Torr

MSP2 Standard View

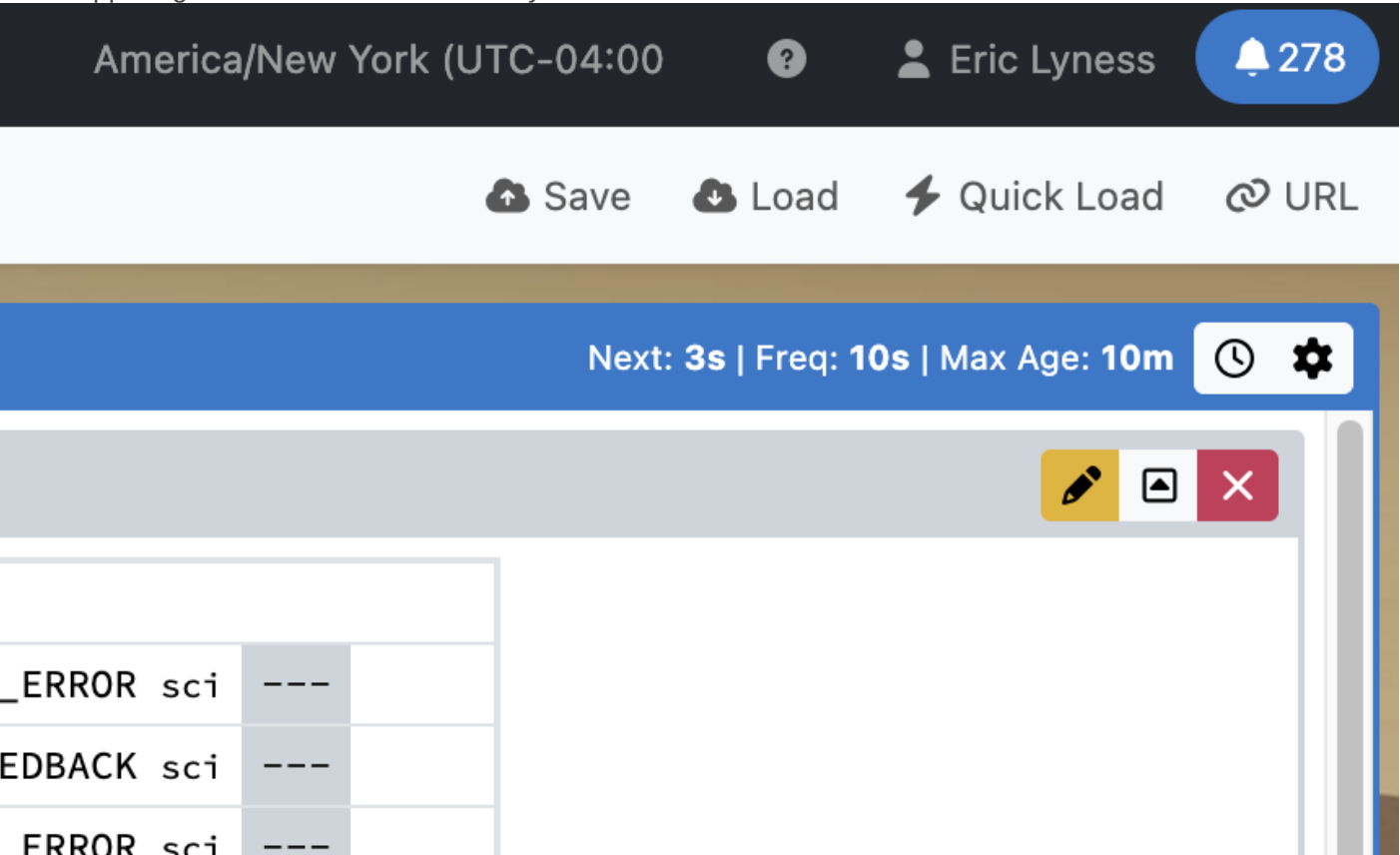
MSP2		MSP2 error flags	
MMC.HK.MSP2_AUTO_MODE_ACTIVE	sc1	---	---
MMC.HK.MSP2_CONTROLLER_STATE	sc1	---	---
MMC.HK.MSP2_CURRENT	sc1	---	mA
MMC.HK.MSP2_HALL_POSITION_COUNT	sc1	---	---
MMC.HK.MSP2_MEASURED_SPEED_RPM	sc1	---	---
MMC.HK.MSP2_MOTOR_CONTROL_ENABLE_COMMAND	sc1	---	---
MMC.HK.MSP2_MOTOR_CONTROL_RUNNING	sc1	---	---
MMC.HK.MSP2_MOTOR_DISABLE	sc1	---	---
MMC.HK.MSP2_OUTPUT_PWM_DUTY_CYCLE	sc1	---	---
MMC.HK.MSP2_BIAS_BIQUAD1_SATURATION	sc1	---	---
MMC.HK.MSP2_BIAS_BIQUAD2_SATURATION	sc1	---	---
MMC.HK.MSP2_BIAS_BIQUAD3_SATURATION	sc1	---	---
MMC.HK.MSP2_BIQUAD1_SATURATION	sc1	---	---
MMC.HK.MSP2_BIQUAD2_SATURATION	sc1	---	---
MMC.HK.MSP2_BIQUAD3_SATURATION	sc1	---	---
MMC.HK.MSP2_CORRUPT_SPEED_ERROR	sc1	---	---
MMC.HK.MSP2_MAX_SPEED_ERROR	sc1	---	---
MMC.HK.MSP2_HALL_CHANGE_TIMEOUT_ERROR	sc1	---	---

Each mnemonic can have green, red and yellow ranges defined in XINA. If the mnemonic's value falls into one of those ranges, the background of the numbers in the table will change to the corresponding color.

Dashboard: Making URLs and Bookmarks

Your dashboard view can be remembered in XINA and you can save a URL to the dashboard as a bookmark in your browser so that you can very quickly get back to seeing the data.

In the upper right corner of the Dashboard you will see the “Save” and “Load” buttons.



The “Save” button allows you to give a name to this Dashboard view and save it in XINA so that you and any other XINA user can find it again.

Clicking save will bring out this view:

Configuration

Save

Load

Current

Custom

Name

Description

Bookmark

Recommend

Save Configuration

Give the dashboard a descriptive name so you can easily find it in a search. There might be many dashboards later. If this is one you use all the time, click “Bookmark” and it will always appear at the top of the search list. Click “Recommend” and other people will also see it at the top of their lists.

Once you've saved the Dashboard, you can load it by clicking the “Load” bottom in the top right. You should see something like this:

Configuration

Save

Load

Current

Custom

Filter...

Sort

☐ Mine First

3 saved configurations found (1 - 3)

<<<

<

1

>

>>>

50

▼

MSP GSE System Live Data

Eric Lyness

May 19, 2026, 1:10 PM

Good for watching live data during life test in N185 with GSE software control

☆

🔖

👁

🔗

✎

📄

✖

Scroll Pump Live

Eric Lyness

May 13, 2026, 12:20 PM

SCroll pump pressure and temperatures

☆

🔖

👁

🔗

✎

📄

✖

WRP Dashboard

Eric Lyness

Jul 23, 2026, 2:22 PM

☆

🔖

👁

🔗

✎

📄

✖

Clicking on the blue words, like “Scroll Pump Live” will load the Dashboard view. Notice the set of tools to the right of the name:



The 4th icon, that looks like a chain link, allows you to create a URL directly to the saved view:

Scroll Pump Live Eric Lyness
May 13, 2026, 12:20 PM
SCroll pump pressure and temperatures



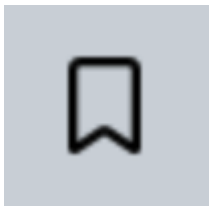
<https://drams.xina.io/tool/dashboard?conf=Scroll%20Pump%20Live>

You can copy the link to the clipboard then in your browser, create a new Bookmark and add it to your Bookmarks bar, or wherever is convenient.

The other icons in the row above:



Make this one of your favorites so it always shows up at the top of your list.

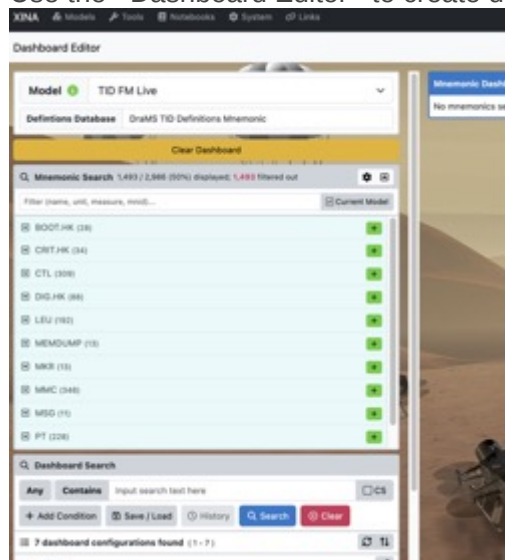


Recommend this configuration to everyone (it will show up below their favorites)

Creating Custom Dashboards

<https://drams.xina.io/tool/dashboard-editor>

Use the "Dashboard Editor" to create dashboard configs that will appear in the Dashboard view shown above.



Model 

The top item in the view is important. It determines the database from which the data will come. For the dashboard, always use "TID FM Live". (other models might be used for specific purposes not covered here).

Also leave the "Definitions Database" as is.