

Dashboard and Live Data Introduction

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

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

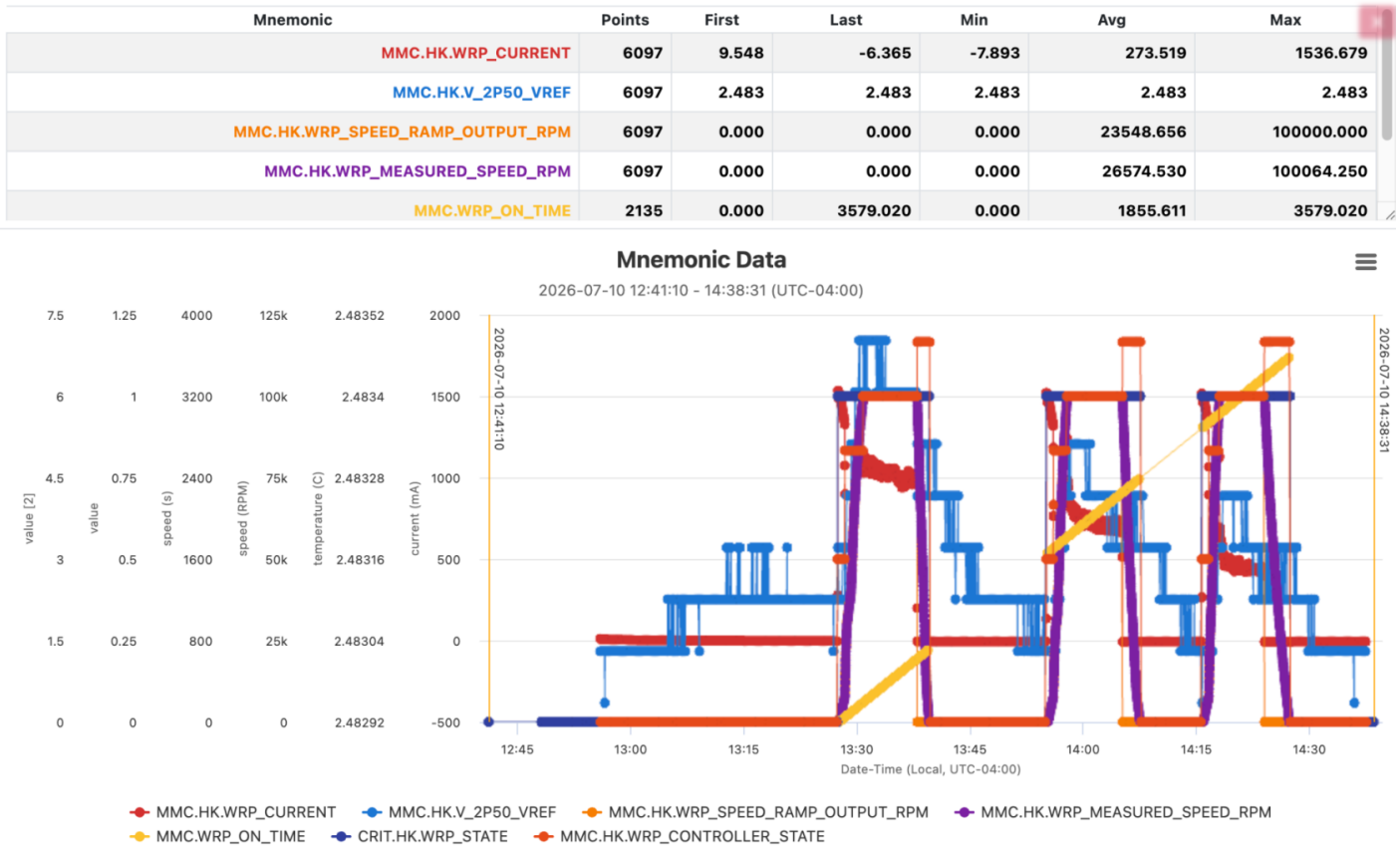
MSP1 Standard View include PM6, aka GPS_PS_02			
MSP1		MSP1 error flags	
MMC.HK.MSP1_AUTO_MODE_ACTIVE	---	MMC.HK.MSP1_HALL_CHANGE_TIMEOUT_ERROR	---
MMC.HK.MSP1_CONTROLLER_STATE	---	MMC.HK.MSP1_MIN_SPEED_ERROR_CASCADE_FEEDBACK	---
MMC.HK.MSP1_CURRENT	--- mA	MMC.HK.MSP1_MAX_SPEED_ERROR	---
MMC.HK.MSP1_HALL_POSITION_COUNT	---	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>

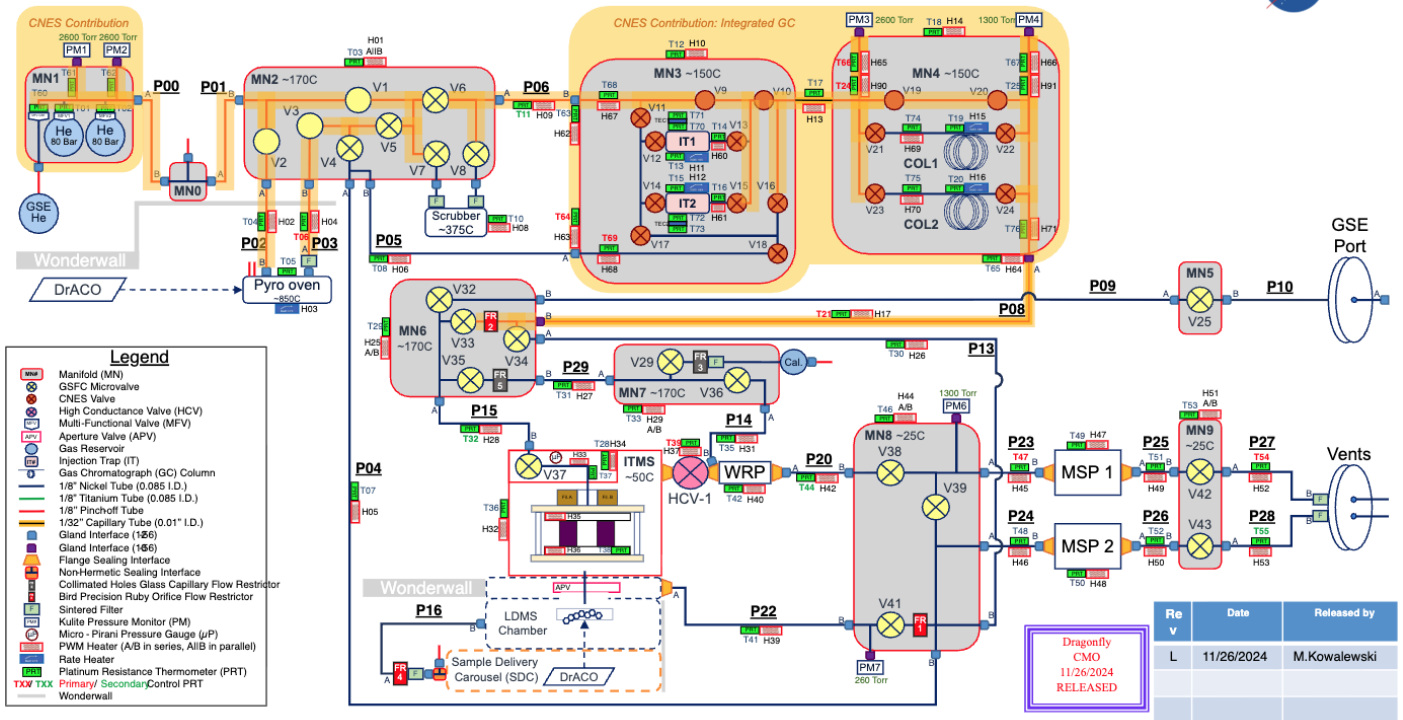
The ""Mnemonic Plot"" tool can be used to plot live data. It can show any combination of mnemonics in a graph as data over time:



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.



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