XINA Terminology

Mnemonics: A named data channel or field. Example: A temperature sensor or a boolean state

Model: A separate system with independent data. Example: Engineering model or flight model

Events: A text label for an instance in time or a time interval, aka **Marker**
Example: 01-17-2025 12:32:21 “Started the pump”

Transformation A plot channel that is derived from a mnemonic with some sort of mathematical transformation applied to the mnemonic's values. Example: During TVAC, we might want to see the rate of change of the temperature. We can "transform" a channel to plot the rate of change rather than the absoluate temperature.

Diagrams: A Diagram is an SVG image with an accompanying set of rules about how it should change in response to data. Those rules are divided into Switches and Indicators.

Switches: A Switch is an on/off logical value. These can be defined as Event Switches, which turn on or off by matching text in Events, Mnemonic Switches, which turn on when a mnemonic is within a specific range, or Logical Switches, which allow you to combine multiple other switches.

Indicators: An Indicator associates Switches with visual effects and particular elements in the Diagram image. Indicators can change colors, update text, or apply highlighting.

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