

Conversion and units for parameters

Overview

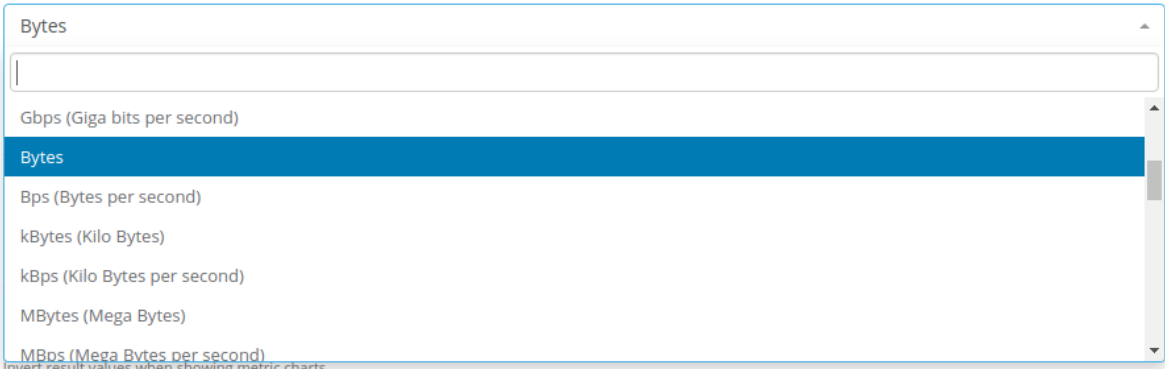
Units of measurement and value conversions can be configured for any parameter in CONTROL. This allows you to standardize how data is displayed and automatically convert values between compatible units (e.g., Bytes to Megabytes).

Configuring Parameter Units

You can assign a unit of measurement to any parameter (such as Bits, Bytes, Megabytes, etc.) through the Parameter configuration screen.

How to Set a Unit

1. Navigate to the [Parameter configuration screen](#)
2. Select the desired unit from the **Unit** dropdown field



The screenshot shows the configuration interface for a parameter. On the left, there are labels for 'Unit:', 'Value conversion:', 'Number of decimals:', and 'Metric chart type:'. The 'Unit:' dropdown menu is open, displaying a list of units: 'Bytes' (highlighted in blue), 'Gbps (Giga bits per second)', 'Bps (Bytes per second)', 'kBytes (Kilo Bytes)', 'kBps (Kilo Bytes per second)', 'MBytes (Mega Bytes)', and 'MBps (Mega Bytes per second)'. Below the list, there is a checkbox labeled 'Invert result values when showing metric charts'.

Display Location

Once a unit is configured, it will be displayed on the device's main screen at the beginning of the corresponding parameter value.

Bytes Received

Bytes 0

Value Conversions

In addition to displaying units, CONTROL can automatically convert values from one unit to another. This is useful when the device reports data in one unit but you need to display it in another.

How to Configure Conversions

To enable automatic conversion between compatible units:

1. Set the source unit in the `Unit` field
2. Set the target unit in the `Value conversion` field

Example: Converting Bytes to Megabytes

The following configuration will convert values received from the device in Bytes to Megabytes:

Unit:

Unit to be displayed next to the value as a label on views and graphs. Don't have any impact on the value itself.

Value conversion:

Apply a conversion formula to the value before saving and displaying the collected data from the device.

Important Notes

- **Compatible units required:** The `Unit` and `Value conversion` fields must contain compatible unit types for automatic conversion to work (e.g., both must be data size units like Bytes, Kilobytes, Megabytes).
- **Custom conversions:** For custom conversion logic or conversions between incompatible unit types, use the [processing script option](#) instead.

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