

This document explains the configuration parameters without building another firmware version. By default, the software is built with the following parameters. Many values are set via Tennant Configuration Software. There may be additional parameters that were built with.

Name	Options
------	---------

Parameter Number
Parameter Name

Size (bytes)

Data Type

- Boolean
- String
- Enum
- Struct
- Standard Types
- Arrays

Firmware Control

- R
- R/W

Software Exposure

- Public
- Semi-Public
- Private

Parameter Access

- Standard
- Design
- Advanced

Memory Location

- EEPROM
- Serial Flash
- FRAM

Board or Module
Description

imeters within the project. Configuration parameters are values that can be changed / using the config USB protocol under Galileo, these values can be changed using pture at the end of the manufacturing line and set up with the options the machine neter not included for other modules.

Description

Each parameter must have a unique identity on the machine. A parameter number should not exist within another board such that any parameter value can be set.

Name of the parameter used for enumeration for descriptive identity.

The size of the parameter in bytes. There may be a subset of data values contained within the parameter that contain their own defined size. The sum of the parts should be less than or equal to the parameter size.

Specifies the type of data the parameter is saved as. Types cannot be mixed and double arrays are not supported.

Single bit indicating true or false.

An ASCII string, null terminated if less than the parameter size.

A unique value representing a specific state or ID.

A selection of different types of data grouped into a structure where the types may be of different sizes.

Any of the C standard types such as UInt8,....

An array of standard types where each array element is the same size.

The data in the parameter may be read/write or just read by the firmware expecting configuration manager to set the data externally.

Read

Read/Write

Galileo software control over the parameter. Some parameters are set via software control only such that the machine will operate according to specification. Other parameters are used for configuration options which must be set via user.

Set via user with software

Set via user with software but specific controlled access (not direct)

Not available for user access to modify.

Something that is likely to change machine to machine with each order.

Project design setpoints to meet product requirements. Shouldn't be changed

Could be changed if there was good reason and would need to be exposed in software to allow access.

The physical type of memory of the save location on the machine. It may be located on different boards.

On micro or external EEPROM (limited write cycles)

Serial Flash IC (large chunks of data, page writes)

External memory (almost unlimited write cycles)

The name of the module where the parameter is stored since parameter ID's are global to the machine.

Description of the parameter.