Module Information:

**Name:** RBI System Helper v1c

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**Summary:**

This module reads in a JSON file stored on the processor to set up the configuration of global program settings. The file is read in automatically on a program reset. Many of the settings are only editable from the JSON file, but location and time-zone can be edited using digital inputs and will save the settings file automatically.

Inputs/Outputs/Parameters:

Inputs:

|  |  |
| --- | --- |
| Initialize | Pulse to re-read the JSON file and update settings. |
| latitude\_degree+ | Push to adjust the system latitude degree up. (Used for the system timeclock) |
| latitude\_degree+ | Push to adjust the system latitude degree down. (Used for the system timeclock) |
| latitude\_minute+ | Push to adjust the system latitude minute up. (Used for the system timeclock) |
| latitude\_minute- | Push to adjust the system latitude minute down. (Used for the system timeclock) |
| longitude\_degree+ | Push to adjust the system longitude degree up. (Used for the system timeclock) |
| longitude\_degree+ | Push to adjust the system longitude degree down. (Used for the system timeclock) |
| longitude\_minute+ | Push to adjust the system longitude minute up. (Used for the system timeclock) |
| longitude\_minute- | Push to adjust the system longitude minute down. (Used for the system timeclock) |
| timezone+ | Push to adjust the system time-zone up. |
| timezone+ | Push to adjust the system time-zone down. |
| [save\_blank\_file] | Pulse this optional symbol to save a blank settings file. The file will be saved to the processor in the location indicated by **settings\_path.**The filename will be the same name as settings\_filename, but with “-blank” appended to the end. |

Outputs:

|  |  |
| --- | --- |
| initialized\_fb | This output will be held high if the JSON file initializes correctly. |
| [file\_saved\_fb] | This optional signal will pulse if the JSON file saves correctly. |
| password\_protected\_fb | This output will be held high if the panels should all be password protected. \*Adjustable from JSON file only |
| password\_protected\_fb\* | This output will be held high if the panels should not be password protected. \*Adjustable from JSON file only |
| lights\_fb | This output will be held high if the panels should show the lights page. \*Adjustable from JSON file only |
| floorplan\_fb | This output will be held high if the panels should show the floorplan page. \*Adjustable from JSON file only |
| DMX\_fb | This output will be held high if the panels should show the DMX page. \*Adjustable from JSON file only |
| shades\_fb | This output will be held high if the panels should show the shades page. \*Adjustable from JSON file only |
| photocells\_fb | This output will be held high if the panels should show the photocells page. \*Adjustable from JSON file only |
| scheduler\_fb | This output will be held high if the panels should show the scheduler page. \*Adjustable from JSON file only |
| outlets\_fb | This output will be held high if the panels should show the outlets page. \*Adjustable from JSON file only |
| help\_fb | This output will be held high if the panels should show the help page. \*Adjustable from JSON file only |
| Page[xx]\_fb | This output will be held high if the panels should show an optional extra page. \*Adjustable from JSON file only |
| num\_rooms\_fb | This output will indicate the number of rooms in the system. \*Adjustable from JSON file only |
| num\_PCs\_fb | This output will indicate the number of photocells in the system. \*Adjustable from JSON file only |
| blink\_warning\_fb | This output will be held high to indicate that a blink warning should be enabled. \*Adjustable from JSON file only |
| setting[xx]\_fb | This output will be held high to indicate that a generic setting has been enabled. \*Adjustable from JSON file only |
| [blank\_file\_saved\_fb] | This optional output will pulse to indicate that a blank file has been saved. |
| latitude\_degree | Indicates the system’s latitude degree. (Used for the system timeclock) |
| latitude\_minute | Indicates the system’s latitude minute. (Used for the system timeclock) |
| longitude\_degree | Indicates the system’s longitude degree. (Used for the system timeclock) |
| longitude\_minute | Indicates the system’s longitude minute. (Used for the system timeclock) |
| timezone | Indicates the system’s time-zone (Used for setting the time-zone on the processor). |
| lat\_is\_north\_fb | This output is held high if the system is located in the northern hemisphere. (Used for the system timeclock) |
| long\_is\_east\_fb | This output is held high if the system is located in the eastern hemisphere. (Used for the system timeclock) |
| gmt\_offset | This signed value indicates the offset from Greenwich Meantime. This value is created automatically based on processor time-zone. |
| timezone\_info$ | This string indicates the current time-zone. This value is created automatically based on processor time-zone |
| error\_fb | This output will be held high if the JSON file fails to initialize. |
| initialize\_status | This signed value indicates the current status of the JSON file. The values are as follows:  1 = Success  -1 = Unknown Error  -2 = No JSON file on processor  -3 = The JSON file is blank  -4 = There is a JSON error  -5 = The file is locked for editing |
| Initialize\_status\_message | This string indicates the current status of the JSON file. |

Parameters:

|  |  |
| --- | --- |
| settings\_path | The location of the settings file on the processor. This defaults to the USER folder. |
| settings\_filename | The name of the settings file. This defaults to settings.json |