

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:

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| 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. |

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| [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. |
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Outputs:

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| 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 |

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| 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 |

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| | -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:

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|-------------------|--|
| 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 |