

Change Log

DE-4000 Series Configurable Safety Shutdown and Control System
Form DE-4000 OCM 02-22



This manual contains information on the operation and configuration of a DE-4000 Safety Shutdown and Control System. This manual supplements the DE-4000 Safety Shutdown and Control System Installation Instructions, Form DE-4000 II.

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| Release Version | Section | Description |
|-----------------|-----------|---|
| 2.1 | Dashboard | Need a way to create virtual buttons (On/Off, Manual/Auto) |
| 2.1 | Dashboard | Long labels do not contain themselves to the component bounds and automatically resize. Example, LED box, a long label will go on top the box and overwrite other components. |
| 2.1 | Dashboard | Long labels do not contain themselves to the component bounds and automatically resize. Example, LED box, a long label will go on top the box and overwrite other components. |
| 2.1 | Comms | ADDED - Ability to write to DE-4000 Modbus Registers. Custom handlers can be created to received written data and store or take other action. |
| 2.1 | HMI | ADDED - Automatic refresh between connected clients. Saving a change on one client forces the other client to updat. |
| 2.1 | Dashboard | FIXED - Could not add a dashboard page between other pages |
| 2.1 | Dashbaord | FIXED - Clicking on the delete (trashcan) would sometimes bring up the channel selector and add a component instead of removing the selected component. |
| 2.1 | Dashbaord | ADDED - Ability to set background color of Virtual Channels to show alarm state, faults,etc |
| 2.1 | Config | ADDED - Fault output can be inverted, activate when faulted or activate when not faulted |
| 2.1 | Config | ADDED - Start up sequence, can turn on and turn off multiple DS outputs in a single start up state |
| 2.1 | Dashboard | When defining an output there is now a single button channel selector |
| 2.1 | Dashboard | ADDED - Up to 10 dashboard pages can now be configured. The previous limit was 7 pages. |
| 2.1 | Setup | FIXED - Debug page numerous bug fixes. All outputs are now forced off when entering and exiting the debug page. |
| 2.1 | Setup | FIXED - System would not power up if a terminal board was missing. Now the system will power up and alert the user of the missing terminal board(s). |
| 2.1 | Comms | ADDED - Ability to read and write 32 bit integer and Floating point values over modbus (combine two 16-bit registers) |
| 2.1 | Config | FIXED - Several issues with loading and saving parameters have been resolved |
| 2.1 | Config | FIXED - Fixed error where "SAVE FAILED" would sometimes appear when saving configuration |
| 2.1 | Comms | Modbus, system can be remotely locked with a modbus write, can only be unlocked with a code by someone with the unlock code |
| 2.1 | Comms | All the main button presses (stop, reset, cancel timers etc.) can be initiated with modbus writes |
| 2.1 | Comms | Can define cutsom modbus write registers. Can assign code to run when a modbus register is written to. Functions can use this then as a passed variable |

| Release Version | Section | Description |
|-----------------|--|---|
| 2.1 | Application | High overspeed fault resolved |
| 2.1 | Config | Ability to configure 10 PIDs using global PID page |
| 2.1 | Config | Parameters page, user can define custom parameters that can be used in script. |
| 2.1 | Dashboard | New display elements for the dashborad page, Toggle button, Up/down, up/down input |
| 2.1 | HMI | HMI responsiveness has been improved |
| 2.1 | HMI | Visible feedback on button presses of the HMI |
| 2.1 | Dashboard | Can change background color on dashboard LED elements |
| 2.1 | Setup | Cal bug fixed |
| 2.1 | Dashboard | Custom fault function field |
| 2.1 | Comms | Extended custom fault function can define extended fault codes that can be accessed over modbus |
| 2.1 | Ext Device | Can take a value on an external device in a script and use it in the application |
| 2.1 | Comms | Can add 10000 and 00000 registers to the dashboard |
| 2.1 | Config | api req() is now added |
| 2.1 | Class C timer has default of 30 seconds. If trying to change a warning message will pop up | |

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