Change Log

DE-4000 Series Configurable Safety Shutdown and Control System

Form DE-4000 OCM 02-22

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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	ADDED - Ability to create toggle buttons on the dashboard (On/Off, Manual/Auto, etc.)
2.1	Dashboard	FIXED - Long labels would extend beyond the bounds of the dashboard component
2.1	HMI	ADDED - Automatic refresh between connected clients. Saving a change on one client forces the other client to update automatically.
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 (combines 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	ADDED - System can be remotely locked with a modbus write. Panel can later be unlocked remotely or an unlock code can be provided.
2.1	Comms	ADDED - All the main button presses (stop, reset, start, cancel timers) can be initiated with modbus writes
2.1	Comms	ADDED - Can define custom modbus write registers. Can assign code to run when a modbus register is written to. Custom functions can then use this received register value as a variable
2.1	Application	FIXED - Erroneous high overspeed fault resolved
2.1	Config	ADDED - Ability to configure 10 PIDs using global PID page (previous limit was 2 PIDs)
2.1	Config	ADDED - Parameters page. When new functions are created, the programmer can define custom parameters, grouped by category, with default values. The end user can configure the new function by modifying the default parameters, if needed.

Release Version	Section	Description
2.1	Dashboard	ADDED - New display elements for the dashboard page. Toggle button, Up/down, up/down input
2.1	HMI	FIXED - HMI responsiveness has been improved
2.1	HMI	ADDED - Visible feedback on button presses of the HMI
2.1	Dashboard	ADDED - Can change background color on dashboard LED elements
2.1	Setup	FIXED - Channel calibration bug fixed
2.1	Dashboard	ADDED - Custom faults can be triggered from a script function
2.1	Comms	ADDED - Extended custom fault function can define extended fault codes that can be accessed over modbus
2.1	Ext Device	ADDED - Ability to read a register from an externally connected Modbus device and use this register value in a custom application
2.1	Comms	ADDED - Modbus Coils and Inputs (register blocks 00000 and 10000) can now be added as dashboard elements
2.1	Config	ADDED - New api_req() function can be used for extended system access
2.1	Config	ADDED - To ensure safe configuration by default, class C timer has default of 30 seconds. If this time value is changed to 0, a warning message will appear, informing the user that in this configuration, the channel will never arm if the setpoint is never reached