

INTRODUCTION

This publication provides a historical summary of the changes made to the application firmware and hardware of the DECS-150 Digital Excitation Control System.

Revision history information for BESTCOMSPPlus® software is provided in the *BESTCOMSPPlus Software Revision History* document.

This information is provided for confidential use with the mutual understanding that it will not be used in any manner detrimental to the interests of Basler Electric.

FIRMWARE REVISION HISTORY

The revision history for DECS-150 application firmware is provided as follows. Revisions are presented in reverse chronological order.

Firmware Version and Date	Change
3.05.01, January 2025	<ul style="list-style-type: none"> Added Load Shed Control, System in Use notification, and Security Log
3.04.06, November 2024	<ul style="list-style-type: none"> Corrected intermittent loss of settings after power cycle Added the ability to update the boot code from BESTCOMSPPlus
3.04.05, December 2023	<ul style="list-style-type: none"> Update for production
3.04.04, October 2023	<ul style="list-style-type: none"> Initial release for version 3 hardware
2.04.04, February 2022	<ul style="list-style-type: none"> Corrected V/Hz function annunciation issue when operating in Manual mode and UEL is active Corrected network load sharing issue in redundant DECS-150 applications
2.04.03, May 2021	<ul style="list-style-type: none"> Corrected Auto/Manual logic element latching operation
2.04.01, January 2021	<ul style="list-style-type: none"> Added Tracking Comms Loss alarm Improved PSS final output Changed to update AVR PID output in Stop mode Fixed preposition traverse rate setting changes not triggering a save Corrected an issue where Auto/Manual buttons in BESTCOMSPPlus control panel may be ignored after Auto/Manual mode was changed from logic Changed default PWM Startup to 3% and Soft Start Level to 30% Corrected logic operation issue when a large number of counters and timers are loaded into the DECS-150 after power up
2.04.00, September 2019	<ul style="list-style-type: none"> Added Generator/Motor operating mode selection Changed Field Rated Minimum Current setting to 0.1 A Changed Hardware Shutdown alarm to be non-latching by default Improved tracking time delay Improved annunciation of grid code binary points Improved external tracking Improved Underfrequency V/Hz Limiter reset function
2.03.00, April 2019	<ul style="list-style-type: none"> Added grid code settings, which makes the DECS-150 compatible with grid code compliant systems Metering labels updated Added Power Input parameter in data log and real-time monitoring

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Firmware Version and Date	Change
	<ul style="list-style-type: none"> Corrected Scale Factors for the Terminal Frequency and Compensated Frequency so they are in units of percent in datalogs and analysis charts Improved Network Load Share algorithm Improved anti reset windup for the PI controller Changed low end range of High-Pass Filtering/Integration Inertia (H) PSS Parameter setting to 0.01 Fixed error in the discrete proportional gain of the PID controller
2.02.01, March 2019	<ul style="list-style-type: none"> Changed to prevent inadvertent boot up issues
2.02.00, January 2018	<ul style="list-style-type: none"> Added external tracking, network load sharing, and Modbus Added Underfrequency Limiter Reset Time setting
1.01.01, September 2017	<ul style="list-style-type: none"> Updated datalog function
1.01.00, July 2016	<ul style="list-style-type: none"> Added Chinese and Russian language support Corrected communication timeout issue
1.00.00, June 2015	<ul style="list-style-type: none"> Initial release

HARDWARE REVISION HISTORY

The revision history for DECS-150 hardware is provided as follows. Revisions are presented in reverse chronological order.

Hardware Version and Date	Change
N, October 2023	<ul style="list-style-type: none"> Initial release of version 3 hardware
M, March 2022	<ul style="list-style-type: none"> Improved power supply
L, February 2022	<ul style="list-style-type: none"> Released firmware version 2.04.04
K, July 2021	<ul style="list-style-type: none"> Incorporated additional power supply filtering
J, March 2021	<ul style="list-style-type: none"> Updated Overexcitation LED label on the front overlay
I	<ul style="list-style-type: none"> This revision letter not used
H, September 2019	<ul style="list-style-type: none"> Removed text "Generator" from overlay
G, January 2018	<ul style="list-style-type: none"> Released firmware version 2.02.00 and BESTCOMS<i>Plus</i> version 3.18.00
F, July 2016	<ul style="list-style-type: none"> Released firmware version 1.01.00 and BESTCOMS<i>Plus</i> version 3.14.00
E, December 2015	<ul style="list-style-type: none"> Released BESTCOMS<i>Plus</i>[®] version 3.11.00
D, September 2015	<ul style="list-style-type: none"> Updated factory documentation
C, August 2015	<ul style="list-style-type: none"> Initial release