

Introduction

This publication provides a historical summary of the changes made to the application firmware and hardware of the DECS-250E 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-250E application firmware is provided as follows. Revisions are presented in reverse chronological order.

Firmware Version and Date	Change
2.09.00, Jan 2026	<ul style="list-style-type: none"> Added NTPv3 compatibility Added security log functionality Added security version reporting Added system-in-use messaging support Altered auto-synchronizer logic element priority so that open requests take precedence over close requests Improved pre-position priority of release and maintain modes Changed port access to allow reset functionality at Control level Corrected auxiliary control FCR setpoint adjustment calculation Corrected NTP sync issue Increased limiter scaling ranges to 1,000% Removed Russian language support Miscellaneous maintenance updates
2.06.04, May 2023 1.06.04, May 2023	<ul style="list-style-type: none"> Improved SCL operation during buildup
2.06.02, Aug 2022 1.06.02, Aug 2022	<ul style="list-style-type: none"> Added Power Input Voltage value in data log and real-time monitoring Improved network load sharing algorithm Corrected an offset in the firing angle from the commanded angle Added fading integral for UEL, OEL, and Var limiters Corrected discrete proportional gain error calculation Corrected UEL and Underfrequency - V/Hz alarms from annunciating when the condition does not exist
1.05.09, Dec 2020	<ul style="list-style-type: none"> Corrected an issue that was identified with programmable logic timers and logic counters where a portion of the timers and/or counters may not operate after uploading settings to the DECS-250E without power cycling the unit
1.05.08, Feb 2020	<ul style="list-style-type: none"> Modified microprocessor startup routine
1.05.06, May 2018	<ul style="list-style-type: none"> Maintenance release
1.05.05, Jul 2017	<ul style="list-style-type: none"> Maintenance release for DECS-250N

Publication 9504000996	Revision G	Revision History	Date 01/26	Page 1 of 8
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Firmware Version and Date	Change
1.05.02, Apr 2017	<ul style="list-style-type: none"> Improved Auto Tuning on high gain systems Improved synchronizer breaker close timing accuracy Modified time display for 12:00 AM and PM Improved indication of CAN Bus baud rate selection Corrected display of RTD value when no RTD is connected
1.05.01, Dec 2016	<ul style="list-style-type: none"> Added active setpoints to acyclic PROFIBUS points
1.05.00, Jun 2016	<ul style="list-style-type: none"> Maintenance release for DECS-250N
1.04.00, Mar 2016	<ul style="list-style-type: none"> Initial release

Hardware Revision History

The revision history for DECS-250E hardware is provided for each model as follows. Revisions are presented in reverse chronological order.

Model Number 9504000101

Hardware Version and Date	Change
R, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
Q	<ul style="list-style-type: none"> This revision letter not used
P, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
N, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
M, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
L, Nov 2019	<ul style="list-style-type: none"> Maintenance release
K, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
J, Jul 2017	<ul style="list-style-type: none"> Maintenance release
I	<ul style="list-style-type: none"> This revision letter not used
H, Jan 2017	<ul style="list-style-type: none"> Removed cooling fan power supply from 50 Adc versions
G, Dec 2016	<ul style="list-style-type: none"> CD-ROM updated with BESTCOMSP^{Plus}® and localized instruction manuals
F, Jul 2016	<ul style="list-style-type: none"> Initial release

Model Number 9504000102

Hardware Version and Date	Change
N, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
M, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
L, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
K, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
J, Nov 2019	<ul style="list-style-type: none"> Maintenance release
I	<ul style="list-style-type: none"> This revision letter not used
H, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
G, Dec 2016	<ul style="list-style-type: none"> CD-ROM updated with BESTCOMSP^{Plus}® and localized instruction manuals
F, Jul 2016	<ul style="list-style-type: none"> Initial release

Publication 9504000996	Revision G	Revision History	Date 01/26	Page 2 of 8
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Model Number 9504000103

Hardware Version and Date	Change
N, Oct 2022	<ul style="list-style-type: none">Added galvanic isolation to the operating power measurement circuit
M, Aug 2021	<ul style="list-style-type: none">Updated Pole Slip resistor mounting brackets to improve ground connection
L, Feb 2021	<ul style="list-style-type: none">Changed paint from smooth to powder coat on painted parts
K, Sep 2020	<ul style="list-style-type: none">Updated printing method on external connectors
J, Nov 2019	<ul style="list-style-type: none">Maintenance release
I	<ul style="list-style-type: none">This revision letter not used
H, May 2019	<ul style="list-style-type: none">Added UL mark to product label
G, Dec 2016	<ul style="list-style-type: none">CD-ROM updated with BESTCOMSP^{Plus}® and localized instruction manuals
F, Jul 2016	<ul style="list-style-type: none">Initial release

Model Number 9504000104

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none">Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none">Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none">Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none">Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none">Maintenance release
A, May 2019	<ul style="list-style-type: none">Initial release

Model Number 9504000105

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none">Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none">Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none">Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none">Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none">Maintenance release
A, May 2019	<ul style="list-style-type: none">Initial release

Model Number 9504000106

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none">Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none">Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none">Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none">Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none">Maintenance release
A, May 2019	<ul style="list-style-type: none">Initial release

Publication 9504000996	Revision G	Revision History	Date 01/26	Page 3 of 8
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Model Number 9504000107

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none">• Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none">• Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none">• Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none">• Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none">• Maintenance release
A, May 2019	<ul style="list-style-type: none">• Initial release

Model Number 9504000108

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none">• Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none">• Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none">• Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none">• Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none">• Maintenance release
A, May 2019	<ul style="list-style-type: none">• Initial release

Model Number 9504000109

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none">• Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none">• Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none">• Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none">• Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none">• Maintenance release
A, May 2019	<ul style="list-style-type: none">• Initial release

Model Number 9504000110

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none">• Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none">• Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none">• Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none">• Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none">• Maintenance release
A, May 2019	<ul style="list-style-type: none">• Initial release

Publication 9504000996	Revision G	Revision History	Date 01/26	Page 4 of 8
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Model Number 9504000111

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none"> Maintenance release
A, May 2019	<ul style="list-style-type: none"> Initial release

Model Number 9504000112

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none"> Maintenance release
A, May 2019	<ul style="list-style-type: none"> Initial release

Model Number 9504000113

Hardware Version and Date	Change
J, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
I	<ul style="list-style-type: none"> This revision letter not used
H, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
G, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
F, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
E, Nov 2019	<ul style="list-style-type: none"> Maintenance release
D, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
C, Jul 2017	<ul style="list-style-type: none"> Maintenance release
B, Jan 2017	<ul style="list-style-type: none"> Removed cooling fan power supply from 50 Adc versions
A, Dec 2016	<ul style="list-style-type: none"> CD-ROM updated with BESTCOMSPi^{us}® and localized instruction manuals
—, May 2019	<ul style="list-style-type: none"> Initial release

Model Number 9504000114

Hardware Version and Date	Change
G, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
F, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
E, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
D, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
C, Nov 2019	<ul style="list-style-type: none"> Maintenance release
B, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
A, Jul 2017	<ul style="list-style-type: none"> Maintenance release
—, Jul 2016	<ul style="list-style-type: none"> Initial release

Publication 9504000996	Revision G	Revision History	Date 01/26	Page 5 of 8
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Model Number 9504000115

Hardware Version and Date	Change
G, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
F, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
E, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
D, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
C, Nov 2019	<ul style="list-style-type: none"> Maintenance release
B, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
A, Jul 2017	<ul style="list-style-type: none"> Maintenance release
—, Jul 2016	<ul style="list-style-type: none"> Initial release

Model Number 9504000116

Hardware Version and Date	Change
K, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
J, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
I	<ul style="list-style-type: none"> This revision letter not used
H, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
G, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
F, Nov 2019	<ul style="list-style-type: none"> Maintenance release
E, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
D, Jul 2017	<ul style="list-style-type: none"> Maintenance release
C, Jan 2017	<ul style="list-style-type: none"> Removed cooling fan power supply from 50 Adc versions
B, Dec 2016	<ul style="list-style-type: none"> CD-ROM updated with BESTCOMSP<i>lus</i>[®] and localized instruction manuals
A, Jul 2016	<ul style="list-style-type: none"> Initial release

Model Number 9504000117

Hardware Version and Date	Change
H, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
G, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
F, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
E, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
D, Nov 2019	<ul style="list-style-type: none"> Maintenance release
C, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
B, Jul 2017	<ul style="list-style-type: none"> Maintenance release
A, Jul 2016	<ul style="list-style-type: none"> Initial release

Publication 9504000996	Revision G	Revision History	Date 01/26	Page 6 of 8
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Model Number 9504000118

Hardware Version and Date	Change
H, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
G, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
F, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
E, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
D, Nov 2019	<ul style="list-style-type: none"> Maintenance release
C, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
B, Jul 2017	<ul style="list-style-type: none"> Maintenance release
A, Jul 2016	<ul style="list-style-type: none"> Initial release

Model Number 9504000119

Hardware Version and Date	Change
G, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
F, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
E, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
D, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
C, Nov 2019	<ul style="list-style-type: none"> Maintenance release
B, May 2019	<ul style="list-style-type: none"> Added UL mark to product label
A, Jul 2017	<ul style="list-style-type: none"> Maintenance release
—, Apr 2017	<ul style="list-style-type: none"> Initial release

Model Number 9504000120

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none"> Maintenance release
A, May 2019	<ul style="list-style-type: none"> Initial release

Model Number 9504000121

Hardware Version and Date	Change
F, Oct 2022	<ul style="list-style-type: none"> Added galvanic isolation to the operating power measurement circuit
E, Aug 2021	<ul style="list-style-type: none"> Updated Pole Slip resistor mounting brackets to improve ground connection
D, Feb 2021	<ul style="list-style-type: none"> Changed paint from smooth to powder coat on painted parts
C, Sep 2020	<ul style="list-style-type: none"> Updated printing method on external connectors
B, Nov 2019	<ul style="list-style-type: none"> Maintenance release
A, May 2019	<ul style="list-style-type: none"> Initial release

Publication 9504000996	Revision G	Revision History	Date 01/26	Page 7 of 8
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Model Number 9504000122

Hardware Version and Date	Change
J, Oct 2022	<ul style="list-style-type: none">Added galvanic isolation to the operating power measurement circuit
I	<ul style="list-style-type: none">This revision letter not used
H, Aug 2021	<ul style="list-style-type: none">Updated Pole Slip resistor mounting brackets to improve ground connection
G, Feb 2021	<ul style="list-style-type: none">Changed paint from smooth to powder coat on painted parts
F, Sep 2020	<ul style="list-style-type: none">Updated printing method on external connectors
E, Nov 2019	<ul style="list-style-type: none">Maintenance release
D, May 2019	<ul style="list-style-type: none">Added UL mark to product label
C, Jul 2017	<ul style="list-style-type: none">Maintenance release
B, Dec 2016	<ul style="list-style-type: none">CD-ROM updated with BESTCOMSP<i>lus</i>[®] and localized instruction manuals
A, Jul 2016	<ul style="list-style-type: none">Initial release

Model Number 9504000123

Hardware Version and Date	Change
H, Oct 2022	<ul style="list-style-type: none">Added galvanic isolation to the operating power measurement circuit
G, Aug 2021	<ul style="list-style-type: none">Updated Pole Slip resistor mounting brackets to improve ground connection
F, Feb 2021	<ul style="list-style-type: none">Changed paint from smooth to powder coat on painted parts
E, Sep 2020	<ul style="list-style-type: none">Updated printing method on external connectors
D, Nov 2019	<ul style="list-style-type: none">Maintenance release
C, May 2019	<ul style="list-style-type: none">Added UL mark to product label
B, Jul 2017	<ul style="list-style-type: none">Maintenance release
A, Jul 2016	<ul style="list-style-type: none">Initial release

Model Number 9504000124

Hardware Version and Date	Change
H, Oct 2022	<ul style="list-style-type: none">Added galvanic isolation to the operating power measurement circuit
G, Aug 2021	<ul style="list-style-type: none">Updated Pole Slip resistor mounting brackets to improve ground connection
F, Feb 2021	<ul style="list-style-type: none">Changed paint from smooth to powder coat on painted parts
E, Sep 2020	<ul style="list-style-type: none">Updated printing method on external connectors
D, Nov 2019	<ul style="list-style-type: none">Maintenance release
C, May 2019	<ul style="list-style-type: none">Added UL mark to product label
B, Jul 2017	<ul style="list-style-type: none">Maintenance release
A, Jul 2016	<ul style="list-style-type: none">Initial release

Model Number 9504000125

Hardware Version and Date	Change
A, Oct 2022	<ul style="list-style-type: none">Added galvanic isolation to the operating power measurement circuit
—, Nov 2019	<ul style="list-style-type: none">Initial release

Publication 9504000996	Revision G	Revision History	Date 01/26	Page 8 of 8
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