Generation 3 Controller Advanced Programming Guide

March 24, 2021

Technical Brief

v1.0.5

Special Features





Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

If you READ nothing else, read this...

- Prior to installing an INMOTION G3 system verify the mechanical installation is 100% operational.
 - o All panels move smoothly, without excessive force required at all points across the span
 - o The frame is square & plumb, and the lead panel meets the jam evenly top to bottom.
 - o All required weather stripping is installed properly and not binding during panel movement.
 - o Panels are NOT warped, and panel pickups release and operate smoothly without issues.
 - o Interlocks engage and disengage properly without dragging extra panels etc.
 - o In a nutshell the door should be at its mechanical "best" before automation is installed
- NEVER leave a door running on a Cycle Test unattended...even for a minute, unless it is in a controlled environment completely void of people and pets.
- DO NOT experiment with commands you find in this guide unless you know what you are doing or have been directed to do so by a trained factory representative.
- Remember the G3 has been certified by UL to be safe, but that only applies if it has been installed safely by the installer.
- If you have any question or concerns, please consult the factory.
- Remember INMOTION offers free training, year-round, all you have to do is ask.

About this Guide...

This guide documents the more advanced options and features of the G3 Controller by INMOTION. It covers the G3 Controller with v0.7.0 or later firmware. This release added 4 "special feature" modes besides the "normal" mode present in the previous release. In addition, there is a cycle test option available to integrators and installers that can exercise the G3 while running any of the 5 supported modes for testing, option enabling or tuning.

When the G3 first boots, it is operating at the "user" level, and no password is required. In this mode, all commands to operate the door must come from wired or wireless accessories such as wall switches and remotes or from a home automation system wired into the wall switch circuit.

To access any of the advanced mode options, called modifiers, a password is required. The password entered will set the user level. The current user / password level can be checked at any time by entering the command "**pwd**" or "**p**" on the CLI. The current level will be displayed on the CLI.

In this guide each page will indicate what user level is required for the given command or function by the graphic shown. A checkmark next to the various levels indicate which user levels can call or modify the command or function documented.

Installers have access to the User, Installer and Developer levels by entering the appropriate password. The difference between the Installer and Developer levels is that some commands change such that the Installer level will not accidentally erase critical door programming information causing more work than necessary. If an installer needs to access one these protected commands, they only need to change to the Developer level to perform the task. For general and advanced programming, the Installer password will work for 99% of the tasks required.

A Caldwell Company

 \checkmark

~

 \checkmark

User

Installer

Developer

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

CLI Password Access

Starting with the "Special Features" v0.7.0 firmware release, the G3 controller requires unique passwords for each controller. This is due a California law, as of Jan 1, 2020, requiring minimum security for IoT devices. To address this change, the G3 utilizes its unique serial number as part of the password. Once programmed at the factory, this new



password scheme is activated. The previous release supported 2 password levels for access to the CLI. Those being "Installer" and "Developer" and they were the same for all G3's running v0.6.7 firmware. If you memorized those passwords, then the new password mechanism will not take too much effort.

The previous passwords for firmware v0.6.7 were:

```
User: "0" // Rarely used as it's the default at boot Installer: "pwd1"
Developer: "IM1635"
```

The new passwords use the same characters as before but with different numbers at the end.

```
User: "0" // Did not change from v0.6.7
Installer: "pwdXXXX" // Replace the "XXXX" with the last 4 digits of the serial number
Developer: "IMXXXX" // Replace the "XXXX" with the last 4 digits of the serial number
```

Note: Entering an incorrect password, immediately puts the controller into "user" mode or minimum access.

As shown above adding the last 4 digits of the G3's serial number will allow the installer to determine the password and access the G3's CLI at the required user level. The serial number can be found on a sticker affixed to the back of the controller itself.

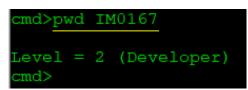
If for some reason the label is unreadable or missing, then the serial number must be obtained from the CLI using the "**ver**" or "**info**" commands. Both the password (**pwd**) and version (**ver**) commands are supported at boot (user level).



After obtaining the serial number, the password can be entered in the CLI using the password command "**pwd**" or "**p**" for short.

```
Installer: pwd pwd0167 // Installers should use this one
Developer: pwd IM0167 // Only use if needed or when directed to do so by the factory
```

```
cmd>pwd pwd0167
Level = 1 (Installer)
cmd>
```



^{*} Passwords will auto-expire after 30 minutes regardless of CLI activity. This timeout can be extended by issuing the "**pwd**" or its abbreviation "**p**" (just the command, no password needs to follow)



A Caldwell Company

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

Tech Brief - Special Features

Special features refers to one of four optional modes supported by the G3 Controller. When none of the special features are active the controller operates in Normal mode.

Supported User Levels

User
Installer
Developer
Factory

Special Feature modes, including Normal mode, are unique and cannot be combined such as Party Mode + Egress mode. It's one or the other and this includes Normal mode. If one

Special Feature is active and another one enabled, it automatically cancels the previous mode and switches to the new one.

Special features alter the operation of a door and differ from "Normal" mode in the way door operations are commanded to open or close. Special features may enable functions that are not available in "Normal" mode. Some special features require optional accessories.

Special features include "Party Mode" (aka Entertainment Mode), "Egress Mode" (aka Close Behind Mode), "One Button Operation" (aka Convenience or ADA Mode) and "Move Assist Mode" (aka Motion Assist Mode).

- o **Party Mode**: Automatically opens a door when the door is closed and motion has been detected. After a period of time, the door automatically closes. Party Mode requires at least 1 motion detector or IR beam sensor positioned near the panel 1's opening. For operation from either side of the opening, a motion detection device is required on both sides.
- o **Egress Mode**: When an Open command is received from a wall switch or wall switch circuit, the door will open, wait for a period of time, then automatically close.
- One Button Operation Mode: When a Stop command is received from a wall switch or wall switch circuit the door will open. When the door is open, the Stop command/button will cause the door to close. If the door is moving, the Stop command/button will stop the door. Operation is similar to automatic garage door systems. A single button "ADA" wall switch can be wired in place of an INMOTION wall switch to provide door control from a single physical button.
- Move Assist Mode: Allows operation of a door by manually pushing the lead panel in the desired open or close direction. After a slight movement of approximately ¼", the controller will engage the motor and move the door to programmed open or close position automatically.

Special Feature Options for Operators at the Wall Switch

These are options that are available from any wired or wireless wall switch or remote. Wall switch enabling and disabling of Special Feature require the door be <u>fully closed and in the jam</u>. When the feature is enabled, all saved parameters for that feature are restored and the feature is enabled immediately. This differs when Special Feature activation is done from the CLI.

- o Enable/Disable any special feature when the door is closed and, in the jam from a wall switch.
- Independent manual adjustment of the opening span for each feature including Normal mode.
- Special Features enabling is persistent and are re-enabled after a power cycle or reboot.
- o Wall switch functions are fully operational while special features are enabled.
- Motion detections during close will stop the door for safety.
- "Soft Touch" is enabled for all operations.
- Defaults for Special Features:

Opening span: 40 inchesMagnetic Brake On Close: Disabled

Auto Close Timer: 10 seconds (when enabled)

800-426-7113

Technical Document Number: n/a

Rev. 1.0.5 2021-03-24

Page 98 of 161



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

Special Feature Installer Options

These are options can be set by the installer using a CLI terminal over a wired serial connection to the G3 controller, or via Bluetooth BLE if a G3 GPIO RS485 Adapter is attached to the controller. Multiple options are available for each special feature allowing the installer to customize each feature for each installation and customer.

- Magnetic "brake at close" can be enabled or delayed from 1s to 24 hours for all features except
 "Move Assist". Move Assist does not support <u>any</u> automatic magnetic brake operations, however the wall switch "release/unlock" is supported from a wall switch or remote.
 - Magnetic "brake at open" can be enabled for all features except "Move Assist."
- o "Auto Close" can be enabled for all features and can be delayed from 1s to 24 hours.
- o Independent feature spans can be set from 6.0" to the mechanical full span limit.
- Party Mode which uses a motion device to open a door will use the same device(s) to safely stop the
 door while closing and return to the programmed open position. All other features, including Normal
 mode will also use the motion detector to stop the door while closing for safety.
- o Span adjust time can be extended or disabled from the 5s default up to "forever" (no time limit).
 - Normal, Party/Egress & One Button Op share a single span adjust parameter, "fsat"
 - Move Assist has an independent span adjust time parameter, "fmat" and only supports a fixed range of options from Disabled(0) or 1s to 98s. "Forever" (no time limit) is not supported.

Note: Unlike the Special Feature wall switch options, CLI option changes are delayed. Although options can be changed at any time with the panel in any position, CLI changes are NOT set immediately. This includes when the panel is stopped and in the jam. Instead, CLI special feature options are only set, after the door is commanded to close and the door then enters the jam and stops. Manual door closures will not cause CLI to update, only a commanded close from a wall switch or the CLI will work.

For example, if the door is closing and the CLI command to enable Party Mode is sent, the door remains in its previous mode until the door closes and stops at the jam. At that point the controller enables Party Mode for the next door operation. If the door is already closed and a special feature or option is changed, those changes will not be active until the next "button close" operation completes. Enabling the changes only requires a wall switch close command or the CLI command "button close" or "b a" for short. This behavior can be checked with the "info" command, as it shows what features enabled and "active" right now. In the case above, info would show "Party Mode" as enabled but not active until the "button close" operation completes at the closed position in the jam.

Reprogramming the Door while a Special Feature is Enabled (Active)

If a special feature is enabled and the door needs to be reprogrammed, the G3 supports reprogramming requests from the wall switch or the CLI. When reprogramming is requested, the G3 simply enters the reprogramming mode, and when complete, re-activates the previous active Special Feature.

A request to reprogram from a wall switch is supported by all modes except "One Button Operation". The reason is the wall switch request to reprogram uses a 10s "**Stop**" button press and that cannot be shared with the OBO's use of the "**Stop**" button to initiate open, close and stop. If "One Button Operation" is active, it can be disabled to reprogram and then reenabled manually. Another option is to request reprogramming using the CLI command "**button autosetup**" or "**b a**". All Special Features support reprogramming from the CLI.

INMOTION

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

Final Configurations

Since many of the options supported by the G3 are only available to the installer when using the CLI, those options should be set prior to completing the job. Customizing specific functions <u>prior</u> to a customer complaint saves unnecessary service calls and makes for happy customers.

The installer or dealer representative should familiarize themselves with the G3 Controller and its feature set. Knowing what the G3 can do is the first step in configuring the system for the customer's needs. Here are some things that a customer may want changed.

Does the customer need or want the magnetic brake enabled, disabled, or delayed? This applies to Normal mode and Special Features.

Does the customer want manual Span Adjust enabled, Disabled or on all the time? Do they need more or less adjustment time?

```
c fsat XXX // Normal, Party Mode, Egress, One Button Operation
// Span Adj Time,
Disable(0), Time Limit(2-98s), No Limit(99)
c fmat XXX // Move Assist Span Adj Time,
Disable(0), Time Limit(2-98s)
```

Are there any special needs residents that may benefit from the One Button Operation feature? Do they need an ADA compatible wall switch button?

A compatible third-party ADA switch needs to 24VDC compatible and provide a 0.5s-1.0s pulse to the wall switch circuit. With "One Button Operation" mode enabled, the ADA switch is wired to the Stop signal. Contact the customer support for more information.

Does the door move too fast or too slow?

```
c osp XXX // Open Speed in inches per second de c osp XXX // Move Assist Span Adj Time, Minimum(1), Maximum(10) Inches/Second Minimum(1), Maximum(10) Inches/Second
```

Is the homeowner aware of the G3 Safety Features such as smart touch and motion detection devices?



WAVE TO

(M)

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



Factory

fpme (Feature Party Mode Enable)

Syntax: config fpme [VALUE]

Abbreviation: c fpme Range/Units: 0-1

Default: 0 (Disabled)



Command Description

CLI command to enable "Party Mode". Enabling this mode disables any currently active mode including Normal mode. All functions of an attached wall switch, remote or home automation connection remain functional in this mode.

When the door is closed and a motion signal is received by the controller, the controller will open the door to the programmed span(default 40"), wait for a designated period(default 10s) and then close. On closure the door does not engage the magnetic brake by default but can be enabled with the modifier "**fpmb**".

If while closing motion is detected, the door will stop and return to its programmed span and restart the auto close timer if enabled.

Party Mode requires a "motion" trigger from a wired or wireless motion detector, IR Beam sensor or a motion signal from a 3rd party device wired into the motion circuit (requires a RS485 GPIO adaptor). When the system is wireless only, a wireless motion detector is the only supported signaling option. For wired & wireless systems, the "**button motion**" or "**b m**" command will simulate an actual motion signal.

Command Options

Party modes supports the following options. Note the span adjust time (**fsat**) is shared between Normal & Party Mode, Egress, and One Button Operation.

Modifier	Description
fpmd	Span adjustable from 6" to full physical span. Default 40".
fpmw	Auto close disable(0), immediate(1) or delayed(1s to 1day)
fpmb	Brake On Close disable(0), immediate(1) or delayed(1s to 1day)
fsat	Span adjust time disable(0), time limit(1 – 98s), forever(99)
mbpop	Brake On Open disable(0), enabled(1)

Terminal Output

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fpmd Party Mode full open span (sub-span) c fpmw Party Mode auto close wait time

c fpmb Party Mode brake on close enable, disable or delay

c mbpop Brake on Open

800-426-7113 Technical Document Number: n/a Rev. 1.0.5 2021-03-24

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



fpmd (Feature Party Mode Distance)

config fpmd [VALUE]

Abbreviation: c fpmd

Developer Range/Units: 6"- full span inches

Factory Default: 40 inches

Syntax:



Command Description

CLI command to set the open distance or sub-span for "Party Mode". This is the distance the door will open when this mode is active. If the user adjusted the sub-span manually, the new span will be stored in this parameter.

The sub-span can be set from a minimum of 6" to the physical full span of the door. If the sub-span is set to a value greater than the physical span of the door, the full span is set without error.

Terminal Output

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fpme Party Mode enable

c fpmw Party Mode auto close wait time

c fpmb Party Mode brake on close enable, disable or delay

c mbpop Brake on Open

Appendix B Inch position to Encoder count conversion table.



Y:\Automation Service\Docs\Series 500 Motor with G3 Controller\G3 Advanced Programming Guide.docx

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



fpmw (Feature Party Mode Wait Time)

Activated On Close

Syntax: config fpmw [VALUE]

Abbreviation: c fpmw

Range/Units: 0 - 86400 seconds

Factory Default: 10 seconds

Command Description

This modifier adjusts the wait before auto-closing while in Party Mode. The default is 10s, and it can be disabled(0), set to close immediately(1) or delay the closure (2s to 1day).

The time limit set here takes precedence over the span adjust time set by the "**fsat**" command. For more information refer to "Tech Brief – Info Report, Actual Adjustment Time".

Terminal Output

```
cmd>c fpmw
                            // Check the modifier's current value
cmd>c fpmw 1
                            // Set auto close to immediately
OK: 1
cmd>c fpmw 60
                            // Set auto close delay to 60s
OK: 60
cmd>c fpmw 3600
                            // Set auto close delay to 1 hour
OK: 3600
cmd>c fpmw 86400
                            // Set auto close delay to 1 day
OK: 86400
                            // Set auto close to factory default
cmd>c fpmw reset
```

References

pwd Requires a minimum user level of "Installer" c fpme CLI enable for the special feature "Party Mode"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fpme Party Mode enable

c fpmd Party Mode full open span (sub-span)

c fpmb Party Mode brake on close enable, disable or delay

c mbpop Brake on Open

Tech Brief Info Report, Actual Adjustment time

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.



Y:\Automation Service\Docs\Series 500 Motor with G3 Controller\G3 Advanced Programming Guide.docx

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



Factory

fpmb (Party Mode Brake on Close)

Activated On Close

Syntax: config fpmb [VALUE]

Abbreviation: c fpmb

Range/Units: 0 – 86400 seconds
Default: 0 seconds (Disabled)

Command Description

This modifier adjusts the wait before engaging the magnetic brake when in Party Mode and the door has just closed. The default is disabled(0), but it can be set to brake immediately(1) or to delay the brake from (2s to 1day).

A setting of 1 does not mean, delay by 1 second. When set to 1, the brake is enabled immediately to help lock the panel in place for installs that have a warped jam which can cause the panel to "bounce" out as the clutch disengages. Previous controllers had a separate "brake timer" that would control this functionality.

When set to 1, the G3 on close will engage the brake *before* releasing the clutch to lock the panel in place and prevent panel "bounce out".

"fpmb" Value	Description
0	Brake on close is DISABLED
1	Brake is engaged IMMEDIATELY on close before releasing the clutch
2 - 86400	Brake is engaged after a delay of this many seconds. 2s – 1day

Terminal Output

```
cmd>c fpmb
                             // Check the modifier's current value
cmd>c fpmb 1
                             // Set brake on close to immediately
OK: 1
cmd>c fpmb 60
                             // Set brake on close delay to 60s
OK: 60
cmd>c fpmb 3600
                             // Set brake on close delay to 1 hour
OK: 3600
cmd>c fpmb 86400
                             // Set brake on close delay to 1 day
OK: 86400
cmd>c fpmb reset
                             // Set brake on close to factory default
```

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fpme Party Mode enable

c fpmd Party Mode full open span (sub-span) c fpmw Party Mode auto close wait time

c mbpop Brake on Open

c mboc Normal mode brake on close

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.

800-426-7113

Technical Document Number: n/a

Rev. 1.0.5 2021-03-24

Page 48 of 161



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



Factory

fege (Feature Egress Enable)

Syntax: config fege [VALUE]

Abbreviation: c fege Range/Units: 0 – 1

Default: 0 (Disabled)



Command Description

CLI command to enable "Egress Mode". Enabling this mode disables any currently active mode including Normal mode. All functions of an attached wall switch, remote or home automation connection remain functional in this mode.

When an "Open" command is received from a wired or wireless wall switch, the controller will open the door to the programmed span(default 40"), wait for a designated period(default 10s) and then close. On closure the door does not engage the magnetic brake by default but can be enabled with the modifier "**fegb**".

Command Options

Egress mode supports the following options. Note the span adjust time "**fsat**" is shared between Normal & Party Mode, Egress, and One Button Operation.

Table	Description
fegd	Span adjustable from 6" to full physical span. Default 40".
fegw	Auto close disable(0), immediate(1) or delayed(1s to 1day)
fegb	Brake On Close disable(0), immediate(1) or delayed(1s to 1day)
fsat	Span adjust time disable(0), time limit(1 – 98s), forever(99)
mbpop	Brake On Open disable(0), enabled(1)

Terminal Output

```
cmd>cmd OTHER_VERSIONS
output here
```

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fegd Egress Mode full open span (sub-span) c fegw Egress Mode auto close wait time

c fegb Egress Mode brake on close enable, disable or delay

c mbpop Brake on Open

800-426-7113 Technical Document Number: n/a Rev. 1.0.5 2021-03-24



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



Factory

fegd (Feature Egress Distance)

Syntax: config fegd [VALUE]

Abbreviation: c fegd

Developer Range/Units: 6" – full span inches

Default: 40 inches



Command Description

CLI command to set the open distance or sub-span for "Egress Mode". This is the distance the door will open when this mode is active. If the user adjusted the sub-span manually, the new span will be stored in this parameter.

The sub-span can be set from a minimum of 6" to the physical full span of the door. If the sub-span is set to a value greater than the physical span of the door, the full span is set without error.

Terminal Output

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fege Egress Mode enable

c fegw Egress Mode auto close wait time

c fegb Egress Mode brake on close enable, disable or delay

c mbpop Brake on Open

Appendix B Inch position to Encoder count conversion table.



Y:\Automation Service\Docs\Series 500 Motor with G3 Controller\G3 Advanced Programming Guide.docx

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



Factory

fegw (Feature Egress Wait Time)

config fegw [VALUE]

Abbreviation: c fegw

Range/Units: 0 – 86400 seconds

Default: 10 seconds



Command Description

Syntax:

This modifier adjusts the wait before auto-closing while in Egress Mode. The default is 10s, and it can be disabled(0), set to close immediately(1) or delay the closure (2s to 1day).

The time limit set here takes precedence over the span adjust time set by the "**fsat**" command. For more information refer to "Tech Brief – Info Report, Actual Adjustment Time".

Terminal Output

```
cmd>c fegw
                            // Check the modifier's current value
cmd>c fegw 1
                            // Set auto close to immediately
OK: 1
cmd>c fegw 60
                            // Set auto close delay to 60s
OK: 60
cmd>c fegw 3600
                            // Set auto close delay to 1 hour
OK: 3600
cmd>c fegw 86400
                            // Set auto close delay to 1 day
OK: 86400
                            // Set auto close to factory default
cmd>c fegw reset
```

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fege Egress Mode enable

c fegd Egress Mode full open span (sub-span)

c fegb Egress Mode brake on close enable, disable or delay

c mbpop Brake on Open

Tech Brief Info Report, Actual Adjustment time

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



Factory

fegb (Feature Egress Brake on Close)

Syntax: config fegb [VALUE]

Abbreviation: c fegb

Range/Units: 0 – 86400 seconds
Default: 0 seconds (Disabled)



Command Description

This modifier adjusts the wait before engaging the magnetic brake when in Egress Mode and the door has just closed. The default is disabled(0), but it can be set to brake immediately(1) or to delay the brake from (2s to 1day).

A setting of 1 does not mean, delay by 1 second. When set to 1, the brake is enabled immediately to help lock the panel in place for installs that have a warped jam which can cause the panel to "bounce" out as the clutch disengages. Previous controllers had a separate "brake timer" that would control this functionality.

When set to 1, the G3 on close will engage the brake *before* releasing the clutch to lock the panel in place and prevent panel "bounce out".

"fegb" Value	Description
0	Brake on close is DISABLED
1	Brake is engaged IMMEDIATELY on close before releasing the clutch
2 - 86400	Brake is engaged after a delay of this many seconds. 2s – 1day

Terminal Output

```
cmd>c feab
                            // Check the modifier's current value
cmd>c feab 1
                             // Set brake on close to immediately
OK: 1
cmd>c feqb 60
                             // Set brake on close delay to 60s
OK: 60
cmd>c feqb 3600
                             // Set brake on close delay to 1 hour
OK: 3600
cmd>c feqb 86400
                            // Set brake on close delay to 1 day
OK: 86400
cmd>c fegb reset
                            // Set brake on close to factory default
```

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fege Egress Mode enable

c fegd Egress Mode full open span (sub-span)
c fegw Egress Mode auto close wait time
c mboc Normal mode brake on close parameter

c mbpop Brake on Open

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.

800-426-7113

Technical Document Number: n/a

Rev. 1.0.5 2021-03-24

Page 52 of 161



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



fmae (Feature Move Assist Enable)

config fmae [VALUE]

Abbreviation: c fmae Range/Units: 0 - 1

Factory Default: 0 (Disabled)

Syntax:



Command Description

Use this CLI command to enable "Move/Motion Assist Mode". Enabling this mode disables any currently active mode including Normal mode. All functions of an attached wall switch, remote or home automation connection remain functional in this mode including "release" to activate the magnetic brake.

Move assist automatically moves the door in the direction of a manual movement of the panel by the operator. The panel only needs to be moved a fraction of an inch to initiate an automatic motor assisted movement. By default, the panel does not auto close but that can be changed with the modifier "**fmaw**". Brake on Close & Open are not supported with move assist however the magnetic brake can be enabled with the wall switch "release" button if desired.

The Span Adjust Time Limit for Move Assist can be disabled(0) or timed for 1s to 98s. Move assist span adjust cannot be set to "forever(99)".

Command Options

Move Assist supports the following options. Note the span adjust time (fmat) is an independent setting for move assist only, and does NOT support adjust forever(99).

Table	Description
fmad	Span adjustable from 6" to full physical span. Default 40".
fmaw	Auto close disable(0), immediate(1) or delayed(1s to 1day)
fmab	Brake On Close disable(0), immediate(1) or delayed(1s to 1day)
fmat	Span adjust time disable(0), time limit(1 – 98s).
mbpop	Brake On Open is not supported & ignored with Move Assist enabled

Terminal Output

References

pwd Requires a minimum user level of "Installer" c fmat Span adjust time for Move Assist only c fmad Move Assist full open span (sub-span) c fmaw Move Assist auto close wait time

c mbpop Brake On Open is IGNORED when this feature is enabled



A Caldwell Company

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



fmad (Feature Move Assist Distance)



Syntax: config fmad [VALUE]

Installer Abbreviation: c fmad

✓ Developer Range/Units: 6" – full span inches

Factory Default: 40 inches

Command Description

This CLI command sets the open position or sub-span for "Move Assist". This is the distance the door will open when this mode is active. If the user adjusted the sub-span manually, the new span will be stored in this parameter.

The sub-span can be set from a minimum of 6" to the physical full span of the door. If the sub-span is set to a value greater than the physical span of the door, the full span is set without error.

Terminal Output

References

pwd Requires a minimum user level of "Installer"

c fmae Move Assist enable

c fmat Span adjust time for Move Assist only c fmad Move Assist full open span (sub-span) c fmaw Move Assist auto close wait time

c mbpop Brake-On-Open is IGNORED when this feature is enabled

Appendix B Inch position to Encoder count conversion table.



Y:\Automation Service\Docs\Series 500 Motor with G3 Controller\G3 Advanced Programming Guide.docx

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



Factory

fmaw (Feature Move Assist Wait Time)

Activated On Close

Syntax: config fmaw [VALUE]

Abbreviation: c fmaw

Range/Units: 0 – 86400 seconds
Default: 0 seconds (Disabled)

Command Description

This modifier adjusts the wait before auto-closing while in Move Assist. The default is disabled(0), but it can be set to close immediately(1) or to delay closure from (2s to 1day).

The time limit set here takes precedence over the span adjust time set by the "**fmat**" command. For more information refer to "Tech Brief – Info Report, Actual Adjustment Time".

Terminal Output

```
cmd>c fmaw
                            // Check the modifier's current value
cmd>c fmaw 1
                            // Set auto close to immediately
OK: 1
cmd>c fmaw 60
                            // Set auto close delay to 60s
OK: 60
cmd>c fmaw 3600
                            // Set auto close delay to 1 hour
OK: 3600
cmd>c fmaw 86400
                            // Set auto close delay to 1 day
OK: 86400
                            // Set auto close to factory default
cmd>c fmaw reset
```

References

pwd Requires a minimum user level of "Installer"

c fmae Move Assist enable

c fmat Span adjust time for Move Assist only c fmad Move Assist full open span (sub-span) c fmaw Move Assist auto close wait time

c mbpop Brake On Open is IGNORED when this feature is enabled

Tech Brief Info Report, Actual Adjustment time

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

Supported User Levels User Installer

fmat (Feature Move Assist Span Adjust Time)

Syntax: config fmat [VALUE]

Abbreviation: c fmat

✓ Developer Range/Units: 0 – 98 seconds✓ Factory Default: 5 seconds



Command Description

This parameter sets the span adjust time limit an operator has to adjust the sub-span of the door just after the door has reached its programmed open position. It is **Move Assist** is specific. Upon stopping, a timer is started, set to "**fmat**" seconds allowing the operator to manually move the panels to a new open position. If panel movement begins before the "**fmat**" timer runs out AND does not stop during the adjustment for longer than "**fmat**" seconds, the new span will be registered for this feature.

For modes that support auto-close, the time limit for auto close can shorten or eliminate the span adjust time. Refer to the "Tech Brief – Info Report, Actual Adjustment Time" for more information.

If additional changes to the span are required after an adjustment is attempted, pressing Open again, even while at full open, will give the operator an additional "**fmat**" timer run to retry the span adjustment for Move Assist.

Panel 1 Manually Moved To	Description
Between 6" from closed TO 2" from full open	Sub-span is SET for the active feature
Between 2" & 4" from closed	Sub-span is SET to the minimum span of 6"
Less than 2" from closed	Sub-span is NOT set
Between 2" from full open & full open	Sub-span is set to the full open value

Terminal Output

References

pwd Requires a minimum user level of "Installer"

c fmae Move Assist Enable

c fmat Span adjust time for Move Assist only c fmad Move Assist full open span (sub-span) c fmaw Move Assist auto close wait time

c mbpop Brake On Open is IGNORED when this feature is enabled

Tech Brief Info Report, Actual Adjustment Time

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.

800-426-7113

Technical Document Number: n/a

Rev. 1.0.5 2021-03-24

Page 56 of 161



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



fsat (Shared Feature Span Adjust Time)

On Clos

Syntax: config fsat [VALUE] c fmat

Abbreviation:

Range/Units: 0 - 98 seconds or 99(forever)

Default: 5 seconds Factory

Command Description

This parameter sets the time limit for an operator to adjust the span of the door just after the door has reached its programmed open position and stopped while Normal, Party Mode, Egress, or One Button **Operation** are enabled. Upon stopping a timer is started, set to "**fsat**" seconds allowing the operator to manually move the panels to a new open position. If panel movement begins before the "fmat" timer runs out AND does not stop during the adjustment for longer than "fsat" seconds, the new span will be registered for this feature.

If additional changes to the span are required after an adjustment is attempted, pressing Open again, even while at full open, will give the operator an additional "fsat" timer run to retry the span adjustment for the currently active mode.

Span adjust for all these features can be disabled(0) or enabled with a timer value from 1 to 98s. Setting the parameter to 99 sets the span adjust time to unlimited or "forever". For modes that support auto-close, the time limit for auto close can shorten or eliminate the span adjust time. Refer to the "Tech Brief – Info Report, Actual Adjustment Time" for more information.

Panel 1 Manually Moved To	Description
Between 6" from closed TO 2" from full open	Sub-span is SET for the active feature
Between 2" & 4" from closed	Sub-span is SET to the minimum span of 6"
Less than 2" from closed	Sub-span is NOT set
Between 2" from full open & full open	Sub-span is set to the full open value

Commands Sharing this Parameter

The shared parameter "fsat" controls the span adjust time for Normal as well as Party Mode, Egress Mode and One Button Operation as these are the only features that support an unlimited adjustment period (99).

Terminal Output

```
cmd>c fsat
                            // Report the current span adjust time for Normal, Party Mode Egress & OBO
                            // Set span adjust time to 1 second which is too short to be useful.
cmd>c fsat 1
OK: 1
cmd>c fsat 98
                            // Set span adjust time to its maximum timed period of 98 seconds
OK: 98
                            // Set span adjust time period to "forever" with (99)
cmd>c fsat 99
OK: 99
cmd>c fsat reset
                            // Reset span adjust time period to factory default of 5 seconds
```

References

pwd Requires a minimum user level of "Installer"

Party Mode enable c fpme Egress Mode enable c fege

c fobe One Button Operation enable

Tech Brief Info Report "Actual Adjustment Time"

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.

800-426-7113 Technical Document Number: Rev. 1.0.5 2021-03-24

A Caldwell Company

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



fobe (Feature One Button Operation Enable)

Syntax: config fobe [VALUE]

Abbreviation: c fobe Range/Units: 0-1

Factory Default: 0 (Disabled)



Command Description

CLI command to enable "One Button Operation/Simplicity Mode". Enabling this mode disables any currently active mode including Normal mode. One Button Operation makes the door operate like an automated garage door opener.

One Button Operation uses a single wall switch button/command to open, close and stop the door. It operates in the same manner as a garage door opener. The "Stop" button/command is used to initiate all door movements. If the door is opening and "Stop" is pressed, the door stops. Pressing "Stop" again will close the door. Once the door reaches programmed open or close, pressing "Stop" will move the door to the opposite jam.

All functions of an attached wall switch or remote remain functional, except for the "Stop" function, where it will perform as previously described.

Command Options

One Button Operation supports the following options. Note the span adjust time (fsat) is shared between Normal & Party Mode, Egress, and One Button Operation.

Table	Description
fobd	Span adjustable from 6" to full physical span. Default 40".
fobw	Auto close disable(0), immediate(1) or delayed(1s to 1day)
fobb	Brake On Close disable(0), immediate(1) or delayed(1s to 1day)
fsat	Span adjust time disable(0), time limit(1 – 98s), forever(99)
mbpop	Brake On Open disable(0), enabled(1)

Terminal Output

References

2021-03-24

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fobd One Button Operation full open span (sub-span) c fobw One Button Operation auto close wait time

c fobb One Button Operation brake on close enable, disable or delay

c mbpop Brake on Open

800-426-7113 Technical Document Number: n/a Rev. 1.0.5

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



fobd (Feature One Button Op Distance)

Activated On Close

Syntax: config fobd [VALUE]

Installer Abbreviation: c fobd

Developer Range/Units: 6" – full span in inches

Factory Default: 40 inches

Command Description

CLI command to set the open distance or sub-span for "One Button Operation". This is the distance the door will open when this mode is active. If the user adjusted the sub-span manually, the new span will be stored in this parameter.

The sub-span can be set from a minimum of 6" to the physical full span of the door. If the sub-span is set to a value greater than the physical span of the door, the full span is set without error.

Terminal Output

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fobe One Button Operation enable

c fobw One Button Operation auto close wait time

Y:\Automation Service\Docs\Series 500 Motor with G3 Controller\G3 Advanced Programming Guide.docx

c fobb One Button Operation brake on close enable, disable or delay

c mbpop Brake on Open

Appendix B Inch position to Encoder count conversion table.



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)



fobw (Feature One Button Op Wait)

Activa On Cl

Syntax: config fobw [VALUE]

Abbreviation: c fobw

Developer Range/Units: 0 – 86400 seconds

Factory Default: 0 seconds (Disabled)

Command Description

This modifier adjusts the wait before auto-closing while in One Button Operation mode. The default is disabled(0), but it can be set to close immediately(1) or to delay closure from (2s to 1day).

The time limit set here takes precedence over the span adjust time set by the "**fsat**" command. For more information refer to "Tech Brief – Info Report, Actual Adjustment Time".

Terminal Output

```
cmd>c fobw
                            // Check the modifier's current value
cmd>c fobw 1
                            // Set auto close to immediately
OK: 1
cmd>c fobw 60
                            // Set auto close delay to 60s
OK: 60
cmd>c fobw 3600
                            // Set auto close delay to 1 hour
OK: 3600
cmd>c fobw 86400
                            // Set auto close delay to 1 day
OK: 86400
                            // Set auto close to factory default
cmd>c fobw reset
```

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fobe One Button Operation enable

c fobd One Button Operation full open span (sub-span)

c fobb One Button Operation brake on close enable, disable or delay

c mbpop Brake on Open

Tech Brief Info Report, Actual Adjustment time

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

Supported User Levels User Installer Developer

Factory

fobb (Feature One Button Op Brake on Close)

Syntax: config fobb [optional]

Abbreviation: c fobb

Range/Units: 0 – 86400 seconds
Default: 0 seconds (Disabled)



Command Description

This modifier adjusts the wait period before engaging the magnetic brake when in One Button Operation and the door has just closed. The default is disabled(0), but it can be set to brake immediately(1) or to delay the brake from (2s to 1day).

A setting of 1 does not mean, delay by 1 second. When set to 1, the brake is enabled immediately to help lock the panel in place for installs that have a warped jam which can cause the panel to "bounce" out as the clutch disengages. Previous controllers had a separate "brake timer" that would control this functionality.

When set to 1, the G3 on close will engage the brake *before* releasing the clutch to lock the panel in place and prevent panel "bounce out".

"fobb" Value	Description
0	Brake on close is DISABLED
1	Brake is engaged IMMEDIATELY on close before releasing the clutch
2 - 86400	Brake is engaged after a delay of this many seconds. 2s – 1day

Terminal Output

```
cmd>c fobb
                             // Check the modifier's current value
cmd>c fobb 1
                             // Set brake on close to immediately
OK: 1
cmd>c fobb 60
                             // Set brake on close delay to 60s
OK: 60
cmd>c fobb 3600
                             // Set brake on close delay to 1 hour
OK: 3600
cmd>c fobb 86400
                             // Set brake on close delay to 1 day
OK: 86400
cmd>c fobb reset
                             // Set brake on close to factory default
```

References

pwd Requires a minimum user level of "Installer"

c fsat Span adjust time for Normal, Party Mode, Egress and One Button Operation

c fobe One Button Operation enable

c fobd One Button Operation full open span (sub-span) c fobw One Button Operation auto close wait time

c mbpop Brake on Open

Appendix A Minutes/Hours to seconds conversion for brake on close & auto close time parameters.

800-426-7113

Technical Document Number: n/a

Rev. 1.0.5 2021-03-24 61 of 161

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

Appendix A: Conversions

Hours & Minutes to Seconds Conversion Table

The following table can be useful when configuring long delays for parameters that only accept parameters in seconds. For example, what is a 10-hour delay in seconds? 36000

Supported User Levels								
×	User							
	Installer							
	Developer							
☑	Factory							

-												н о	U R	S											
\mathbb{D}	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	1
0	0	3600	7200	10800	14400	18000	21600	25200	28800	32400	36000	39600	43200	46800	50400	54000	57600	61200	64800	68400	72000	75600	79200	82800	ı
1	60	3660	7260	10860	14460	18060	21660	25260	28860	32460	36060	39660	43260	46860	50460	54060	57660	61260	64860	68460	72060		79260	82860	
2	120	3720	7320			18120						39720			50520			61320		68520		75720		82920	L
3	180	3780	7380				21780				36180		43380		50580				64980		72180	75780	79380	82980	
5	300	3840	7440 7500		14640	18240	21840	25440		32640 32700	36240 36300	39840 39900		47040		54240	57900	61440	65040	68640 68700	72240 72300	75840 75900	79440 79500	83040	ı
6	360	3960	7560	11160				25560	THE REAL PROPERTY.	32760	36360		43560			54360			65160	68760		75960	79560	83160	ı
7	420	4020	7620		14820	18420		25620			36420				50820		58020		65220	68820	72420	76020	79620	83220	ı
8	480	4080	7680	11280	14880	18480	22080	25680	29280	32880	36480	40080	43680	47280	50880	54480	58080	61680	65280	68880	72480	76080	79680	83280	Γ
9	540	4140	7740	11340	14940	18540	22140	25740	29340	32940	36540	40140	43740	47340	50940	54540	58140	61740	65340	68940	72540	76140	79740	83340	١
10	600	4200	7800	11400	_				29400	33000	36600	_		47400			58200		65400	69000	72600	76200	79800	83400	ı
11	660	4260	7860				22260			33060	36660	40260			51060		58260		65460	69060			79860	83460	ı
12	720	4320	7920		15120	18720	22320	25920	29520	33120	36720	40320			51120 51180		58320	61920		69120	72720	76320	79920	83520	١
13	780 840	4380 4440	7980 8040	11640	DESCRIPTION OF THE PERSON OF T			25980 26040	29580	33180	36780 36840	40380		100000000000000000000000000000000000000	51180	54780	58380	62040	65580		72780 72840	76380 76440		83580 83640	ı
15	900	4500	8100			18900						40500						62100		69300				83700	١
16	960	4560	8160	11760				26160		33360	36960		44160			54960		62160		69360		76560		83760	I
17	1020	4620	8220	11820	15420	19020	22620	26220	29820	33420	37020	40620	44220	47820	51420	55020	58620	62220	65820	69420	73020	76620	80220	83820	١
18	1080	4680	8280	11880	15480	19080	22680	26280	29880	33480	37080	40680	44280	47880	51480	55080	58680	62280	65880	69480	73080	76680	80280	83880	١
19	1140	4740	8340		15540		22740				37140				51540				65940		73140			83940	ĺ
20	1200	4800	8400	12000		19200	22800	26400	30000	33600	37200	40800	CONTRACTOR OF THE PARTY OF	48000			58800	62400	66000	69600	73200	76800	80400	84000	
21	1260	4860	8460	12060	SERVICE COLUMN	19260		26460			37260	40860	44460		51660		58860		66060	69660	73260	76860	80460	84060	
23	1320 1380	4920 4980	8520 8580	to constant and	processors.	19320 19380		26520 26580	30120 30180	33720	37320 37380	40920		48120	51720		58920 58980	62520 62580	66180	69720 69780	73320 73380	76920 76980	80520 80580	84120 84180	į
24	1440	5040	8640				District Contract of the Contr	26640				41040				55440	THE PERSON NAMED IN	62640				77040		84240	
25	1500	5100	8700	12300			23100	26700	30300	33900			44700				59100		66300	69900	73500	77100	80700	84300	
26	1560	5160	8760	12360	15960	19560	23160	26760	30360	33960	37560	41160	44760	48360	51960		59160	62760		69960		77160	80760	84360	ĺ
27	1620	5220	8820	12420	16020	19620	23220	26820	30420	34020	37620	41220	44820	48420	52020	55620	59220	62820	66420	70020	73620	77220	80820	84420	
28	1680	5280	8880	12480	16080	19680	23280	26880	30480	34080	37680	41280	44880	48480	52080	55680	59280	62880	66480	70080	73680	77280	80880	84480	-
29	1740	5340	8940		16140		23340		30540		37740				52140				66540		73740		80940	84540	
30	1800	5400	9000	12600				27000	30600	34200		41400		48600	and the second second	55800		63000			73800	77400		84600	ı
31	1860 1920	5460 5520	9060	12660	16260	100000000000000000000000000000000000000	23460	27060	STREET, STREET, STREET,	34260	37860 37920			48660	52260	55920		63060	66660			77460	81060	84550 84720	
33	1980	5580	9180	12780	16380	19980	23580		30780				45180				59580		66780	70320	73980		81180	84780	l
34	2040	5640	9240		-		23640			34440		41640	COLUMN TO SERVICE		Section 201	56040		63240				77640		84840	
35	2100	5700	9300	12900				27300	30900	34500				48900			59700		66900	70500		77700		84900	
36	2160	5760	9360	12960	16560	20160	23760	27360	30960	34560	38160	41760	45360	48960	52560	56160	59760	63360	66960	70560	74160	77760	81360	84960	
37	2220	5820	9420	13020	16620	20220	23820	27420	31020	34620	38220	41820	45420	49020	52620	56220	59820	63420	67020	70620	74220	77820	81420	85020	
38	2280	5880	9480		16680	20280		27480				41880		49080			59880	63480		70680	74280		81480	85080	
39	2340	5940	9540		100000000		NEGENAL PROPERTY.	27540							52740		59940		67140	70740		77940		85140	
40	2400	6000	9600	13200		20400		27600	31200	34800	38400	42000		49200	_	56400	60000		67200	70800	_	78000	81600	85200	
41 42	2460 2520	6060	9660 9720	13260	16860	20460		27660 27720		34920	38460 38520		45720	49320	52860		60060	63660 63720		70860	74460	78060 78120		85260 85320	
43	2580	6180	9780	13380	16980		24120		31380		38580		45780		52920		60180		67380	70920	74580		81780	85380	I
44	2640	6240	9840			20640						42240				56640				71040		78240		85440	
45	2700	6300	9900	13500	17100	20700	24300	27900	31500	35100	38700	42300	45900	49500	53100	56700	60300	63900	67500	71100			81900	85500	
46	2760	6360	9960	13560	17160	20760	24360	27960	31560	35160	38760	42360	45960	49560	53160	56760	60360	63960	67560	71160	74760	78360	81960	85560	
47	2820	6420	10020		17220	20820	24420		31620		CONTRACTOR OF STREET	42420			53220		60420		100000					85620	
48	2880	6480	10080	13680			24480				38880	42480	46080	49680			60480	64080		71280	74880	78480		85680	
49	2940	6540	10140		17340	20940	The second second		31740		38940				53340		60540		67740	71340	74940		82140	85740	
50 51	3000	6660	10200	13800	17400 17460	21000	24600	28200 28260	31800	35400 35460	39000 39060	42600 42660	46200 46260	49800 49860	53400	57000 57060	60600	64200 64260	67800 67860	71400 71460	75000 75060	78600 78660	82200 82260	85800 85860	ı
52	3120	6720	10320		17520							42720			53520							78720		85920	
53	3180	6780	10380				24780			35580	39180				53580			64380			75180		82380	85980	4
54					17640		SECURIOR SECURIOR SE	Service District														- Name (1970)			
55	3300	6900			17700																				
56	3360		THE OWNER OF THE OWNER OWNE		17760		DESCRIPTION OF THE PERSON NAMED IN		STREET,				THE REAL PROPERTY.		management of the	Name and Address of the Owner, where	HARMON STREET,		THE RESERVE OF THE PERSON NAMED IN						۰
57	3420				17820																				
58	3480				17880																				
59	3540				17940																				
60	3600				18000																				1
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	1

800-426-7113
Technical Document Number: n/a

Rev. 1.0.5 2021-03-24



Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

Document Revisions

Revision	Release Date	Description
1.0.0	Sep 22, 2020	Initial release
1.0.1	Oct 2, 2020	Fixed typos in "Soft Touch" Tuning
1.0.2	Nov 19, 2020	Added info on "hard current limit" vs "Soft Touch"
1.0.3	Mar 15, 2021	TLE update with firmware v0.7.2
1.0.4	Mar 22, 2021	Updated TLE Tech Brief
1.0.5	Mar 24, 2021	Fixed some typos & added a recommended command to the TLE docs

Y:\Automation Service\Docs\Series 500 Motor with G3 Controller\G3 Advanced Programming Guide.docx

Part Number(s): 28C0030(G3), 28C0061(RCM), 29C0052(RS485)

G3 Firmware Revisions

Revision	Release Date	Description
0.7.2	Mar 11,2021	Maintenance release to address "TLE" over-current/temp issue.
(latest)		"hfi" help command added for "TLE" issues
		Help commands "avi", "maxc" and "acdc" added
		Config command "spl" added
		"c all reset" updated to preserve "spl" and "hfi" settings
		"TLE" over-current/temps counts tracked in flash
		G3 LED color code updated
		Panel 1 mass increased to 50,000/100,00lbs (Oneway/Bipart)
0.7.1	Aug 28, 2020	Functionally identical to the v0.7.0 release. Updated 4 parameters to use
0.7.1	7 tag 20, 2020	new defaults.
		Command v0.7.1 New Defaults v0.7.0 Defaults
		osp 4.0000 IPS 4.5000 IPS
		csp 4.0000 IPS 4.5000 IPS
		fpce 470mA 430mA
		fpthr 10 counts 5 counts
0.7.0	Aug 21, 2020	"Special Features" release for G3 K12. G3 K02 is not supported.
0.1.10	7 (49 2 1, 2020	Entertainment, Close Behind, Simplicity & Motion Assist modes
		UL325 closing force reduced by 35% over v0.6.7
		 Improved security, delayed mag brake, manual span adjust, etc
		Integrated cycle testing Profile his procedution is proceed by 200%
		Profile bin resolution increased by 300%.
0.07 (1(10)	D 0 0040	Cleaner CLI interface optimized for smart phone access
0.6.7 (K12)	Dec 3, 2019	Initial production release for G3 supporting basic door functions only using
0.5.91(K02)		wired & wireless accessories. Processors K02 & K12 supported.

800-426-7113

Technical Document Number: n/a

Rev. 1.0.5 2021-03-24

