

BG3K - GUI Parameter Explanation

Rev. A 07/12/2017



will take to disconnect upon sensing below the low voltage threshold (LVT).

Inhibit Disconnect Delay

This parameter value will inhibit the manual disconnect function when the ignition is turned off. This will the allow the engine ECU's to power down correctly. The parameter is for vehicles in which have ad blue or any other type of special equipment.

Automatic Disconnect

The automatic disconnect counter will increment for every successful automatic disconnect. This is monitored via the red / black wire on the battery guard. The counter can be read or reset via the tabs below

A failed disconnect count will increment when the relay does not disconnect successfully. The counter can be read or reset via the tabs below.

A manual disconnect count will increment when the relay is manually disconnect via the battery guard switch. The counter can be read or reset via the tabs below.

Aux Input Polarity / Aux Input Configuration

With this box checked the auxiliary input is required to read a positive signal, with the box unchecked the auxiliary input is required to read a negative input. The configuration can be chosen by the "Aux Input Configuration" drop down box.

With this box checked, press and hold the battery guard reset switch for 3 seconds. After the 3 second hold, the battery guard will disconnect the Intellitec relay. If the ignition has been turned off and the inhibit disconnect delay is true, the manual disconnect will be inhibited for this period of time.

Time Controlled Disconnect

With this box checked, press and hold the battery guard reset switch for 3 seconds. After the 3 second hold, the buzzer and reset switch LED will flash quickly to indicate the time controlled disconnect phase has been entered. The Intellitec relay will then disconnect after the inhibit disconnect value has been completed and the buzzer and switch LED will stop flashing.

With this box checked the batteryguard switch LED will follow the buzzer frequency.

With the "Auto Reconnect" check box - checked and the intellitec relay is disconnected when the battery voltage senses above this value the intellitec relay will automatically reconnect.

50% Buzzer Intensity

This check box will reduce the buzzer's audible intensity to 50%.

Low Voltage Buzzer Mute

This check box will mute the buzzer if the inhibit wire is given a positive whilst the voltage is below the LVT.

Alarm Modes Active With Inhibit

The alarm modes will still become active if the inhibit wire is given a positive whilst the voltage is below the LVT.

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	58-01013-120/240 GUI			
	File BATTERY	BATTERY G	UARD 300	BATTERY GUARD3K
Alarm 1 Delay Alarm 1 delay will enable the alarm 1 output on the battery guard. This will become active after the parameter value is true. For this example the alarm 1 output will become active after 2 minutes of the battery voltage sensing below 12.1 volts. If the battery voltage rises above this voltage the alarm 1 will turn off. The value for this alarm can be entered from 0 to 8 minutes dependant on the total isolation delay and what alarm 2 is set to.	Read Configuration Send Configuration	O0-01013-120 (12V) Threshold and Delay Configurations Low Voltage Threshold: 12.1 V Allowable Range: 10.5 to 12.4 V Reconnect Threshold: 13.3 V	 00-01013-240 (24V) Isolation Delay: 4 Min Allowable Range: 0 to 8 min Inhibit Disconnect Delay: 30 Sec 	Disconnects Automatic Disconnects: 0 Failed Disconnects: 0 Manual Disconnects: 0
The battery guard also has an audible alarm in which can be sounded to warn of low battery voltage. The frequency of this buzzer can be selected during alarm 1. The alarm 1 can be programmed to continuously active during the alarm 1 period flashing, trigger once "One Shot" or flash 5 times only	Check Firmware Revision Project Title	Allowable Range: 12.5 to 13.4 V Alamn1 Alamn 1 Delay: Min Allowable Delay Range: 0 to 8 min	Allowable Range: 0 to 360 sec Alam2 Alam 2 Delay: Min Allowable Delay Range: 0 to 8 min	Read Disconnect Count Reset Automatic Disconnect Count Reset Failed Disconnect Count Reset Manual Disconnect Count
The alarm 1 can also be disabled and not operate at all. The polarity of the output is determined via whether the alarm common (Slate Wire) is wired to a negative or positive. The slate wire acts as a common contact to a relay. The alarm 1 can be operated as normally closed via the check box.	Configuration Number H R3MG0 U5NQ5 B4100	ALM1 Mode Buzzer Freq Alam 1 Setting 2Hz Continuous Alam 1 Contact Normally Closed Alam 1 Output Enabled During Alam 2	ALM2 Mode Buzzer Freq Alarm 2 Setting 4Hz Continuous Alarm 2 Contact Normally Closed Alarm 1 and Alarm 2 Latch Mode	Features Aux Input Polarity (Checked = Positive Enable) ✓ Manual Disconnect (Checked = Enabled) Time Controlled Disconnect (Checked = Enabled)
The alarm 1 output can be also enabled during the alarm 2 phase via the check box.	COM Setup ● COM 1 ● COM 2 ○ COM 3 ● COM 4 ● COM 5 ○ COM 6	BD Relay Feedback Polarity Positive Leg Low Voltage Threshold Buzzer Frequency 1Hz	Inhibit Disconnect Setting Positive On Aux Input Configuration Mute Buzzer	External LED (Checked = Follow Buzzer Frequency) Auto Reconnect (Checked = Enabled) 50% Buzzer Intensity (Checked = Enabled) Low Voltage Buzzer Mute (Checked = Mute with Inhibit)
	Entellitec www.intellitec.com	GUI Version: Rev K.3 - 03/03/2015	Firmware Version: Rev H - 2/24/2015	Alam Modes Active With Inhibit (Checked = Enabled) Aux Out Disconnect (Checked = Enabled) Alams Reset on Reconnect Threshold Extended Feedback Delay

BD Relay Feedback Polarity

The BD relay feedback polarity is required to be set positive when isolating a positive side of the battery through the Intellitec relay.

The BD relay feedback polarity is required to be set negative when isolating a negative side of the battery through the Intellitec relay.

Low Voltage Threshold Buzzer Frequency

When a buzzer frequency is set the audible buzzer will sound upon sensing below the LVT. This will continue to sound throughout the isolation delay unless the voltage climbs above the LVT or alarm 1 is used and the conditions are met.

Aux Input Configuration

The aux input blue wire can be programmed to several features.

	1. Alarm 1	5. Split (
	If the aux input configuration is set to alarm 1 once the aux input wire is triggered, positive or negative (See page 1 for polarity details) then the battery guard will force alarm 1 mode regardless of battery voltage.	If the aux must be
	2. Alarm 2	With this to energi
	If the aux input configuration is set to alarm 2 once the aux input wire is triggered,	The para
	force alarm 2 mode regardless of battery voltage.	1. The in
3.	3. Disconnect	3. The sp
	If the aux input configuration is set to disconnect, once the aux input wire is triggered, positive or negative (See page 1 for polarity details) then the battery quard will	6. Force
	force a disconnect if the inhibit wire is not overridden, regardless of battery voltage.	If the aux
	4. Mute Buzzer	will be fo
	If the aux input configuration is set to mute buzzer, once the aux input wire is triggered,	

positive or negative (See page 1 for polarity details) then the battery guard will mute the audible buzzer, regardless of battery voltage.



Alarm 2 Delay

Alarm 2 delay will enable the alarm 2 output on the battery guard. This will become active after the parameter value is true. For this example the alarm 2 output will become active after a total of 3 minutes of the battery voltage sensing below 12.1 volts. If the battery voltage rises above this voltage the alarm 2 will turn off. This is achieved by adding the alarm 1 delay to alarm 2 delay. The value for this alarm can be entered from 0 to 8 minutes dependant on the total isolation delay and what alarm 1 is set to.

The battery guard also has an audible alarm in which can be sounded to warn of low battery voltage. The frequency of this buzzer can be selected during alarm 2.

The alarm 2 can be programmed to continuously active during the alarm 2 period, flashing, trigger once "One Shot" or flash 5 times only. The alarm 2 can also be disabled and not operate at all.

The polarity of the output is determined via whether the alarm common (Slate Wire) is wired to a negative or positive. The slate wire acts as a common contact to a relay.

The alarm 2 can be operated as normally closed via the check box.

If the alarm 1 and alarm 2 latch mode check box is selected both outputs will latch and stay on once both alarm 1 and alarm 2 conditions are met.

Inhibit Disconnect Setting

- The inhibit disconnect setting determines whether the inhibit wire;
- Requires a positive to be active to inhibit the unit from disconnecting.
- Requires a positive to not be active to inhibit the unit from disconnecting.
- Requires a negative to be active to inhibit the unit from disconnecting.
- Requires a negative to not be active to inhibit the unit from disconnecting.

Charge Positive Sense

x input configuration is set to split charge positive sense the aux input wire wired to the primary battery of the two battery banks.

feature selected, alarm 2 is no longer used and the green wire is now used sise a relay to join two different battery banks together for split charging.

ameters in which are required to be met to engage split charging are as follows;

- nhibit orange wire must be live.
- nux input blue wire must see above the split charge threshold value. plit charge delay value must be met.

Threshold

x input configuration is set to force threshold, once the aux input wire is d, positive or negative (See page 1 for polarity details) then the battery guard prced into low voltage threshold condition. If the inhibit orange wire is active ery guard will not be able to disconnect.

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