



# Product Change Notification

## *5201 Power Tamer VS*




<b>PCN Number:</b>	EMEPCN-0005
<b>Revision:</b>	1.06
<b>Issue Date:</b>	2019-06-20
<b>Effective Date:</b>	2019-07-01
<b>Author:</b>	Egis Mobile Electric

## 1 Product Identification

### 1.1 Product Data

	Current Product	New Product	New Smaller Functional Replacement Product	New Smaller Product with Increased Functionality
<b>Product Name</b>	Power Tamer VS Rev 3.3	Power Tamer VS Rev 4.0	Power Tamer VS w/o Adapter Brkt	PT Series Time Delay Relay
<b>Egis Part Numbers</b>	5201	5201	5201-2001	5601B
<b>Date Codes</b>	01/1995 → 07/2019	07/2019 →	07/2019 →	06/2019 →

## 1.2 Means of Distinguishing Changed Products

		Remark	
Product Number	<input checked="" type="checkbox"/>	Old product number 5201 will remain. Revision 3.3 will be replaced by Revision 4.0 as a drop-in physical and functional replacement. 5201-2001 will be a functional replacement but is a much smaller physical replacement. 5601B is both a smaller physical alternative and provides incremental functional capabilities. The 5601B is the recommended part number for customers to start using.	
Hardware Revision	<input type="checkbox"/>		
Date Code Label	<input checked="" type="checkbox"/>	New products will be built with date codes 05/2018 and beyond	
Other	<input checked="" type="checkbox"/>	See Overall Housing Shape Height	
		Current Rev 3.3 Version 5201 (Top) & New Rev 4.0 Version (Bottom)	New Versions 5201-2001 & 5601B
			
			

## 2 Description and Reason of Change

AVL	<input type="checkbox"/>	Product Improvement	<input checked="" type="checkbox"/>
Material	<input type="checkbox"/>	BIOS Release	<input type="checkbox"/>
Assembly Process	<input checked="" type="checkbox"/>	Firmware Release	<input type="checkbox"/>
Assembly BOM	<input checked="" type="checkbox"/>	Datasheet / Manual	<input type="checkbox"/>
Testing	<input type="checkbox"/>	DFM	<input type="checkbox"/>
Manufacturing Site	<input checked="" type="checkbox"/>	Other	<input checked="" type="checkbox"/>

A new version has been created of the 5201 Power Tamer VS product due to component end of life situation and single source supplier material constrictions that are resulting in excessive lead times for several critical components. The new revision of the 5201 (Rev 4.0) utilizes a new high-efficiency high-amperage switching element and supporting circuit board components that have been confirmed to be an improvement over the previous components. The new product options have several differences from the original product, which are outlined in this product change notice.

## 3 Impact of change (positive or negative) on fit, form, function & reliability

### 3.1 Quality and Reliability

The changes listed in Section 2 will have no negative effect on the overall functionality, performance specifications, quality and reliability of the product. The new revision offers the same power input and output wire sizes (12 AWG) and low amperage wire sizes and colors/wire markings. A potted aluminum enclosure with a dip switch label cover on the bottom has been replaced with a sealed composite enclosure with a rubber dip switch cover on the bottom. This offers improved harsh environment withstand capability. An additional improvement involves the usage of a high-efficiency power switching element that is capable of supply 30 Amps continuous compared to the previous version that was capable of supplying 25 Amps continuous, allowing for increased power switching and continuous load or for applications at higher elevated temperatures.

As a result of the improvements the new product incorporates, the new product warranty for the new part numbers will double the old product warranty (2 years) and provide a total of 4 years of warranty against product failure.

## **3.2 Firmware Compatibility**

The functionality of the new Revision 4.0 and the 5201-2001 remains the same as the current version. Voltage settings and time delay parameters will not change. All user configurable options will remain the same as well. External LED indication on the new Revision 4.0 and the 5201-2001 will remain the same in color and appearance, however the new 4.0 Revision and the 5201-2001 utilize a single LED indicator to provide the red and green LED reporting.

The functionality of the 5601B product is different than the original and new revision of the 5201 product. Only 3 dip switches will be utilized to offer time delays from 5 sec to 8 hrs. Incremental functionality over the 5201 has been added to the 5601, including (a) selectable input voltage sense triggering for ON and Delay Off, as well as (b) the option to disable or selecting up to three different low voltage disconnect settings.

## **3.3 Physical Compatibility**

The new revision 4.0 will have a new custom composite housing with new internal printed wiring assembly and on-board components. The overall mounting footprint size for the 5201-2001 and 5601 (sq-in) is 4x to 5x smaller overall. The input and output wire sizes and fuse compartments will be the same, however the new revision 5601B will be shipped with 40 Amp fuses versus the 25 Amp fuses currently supplied on the 5201 due to the higher continuous current capability (30A) of the new product family versus the old product design (20-25A)

The Rev 4.0 Power Tamer VS 5201 is designed to be a drop-in replacement to the legacy Revision 3.3 Power Tamer VS 5201 for customers who require the exact same response and capability. It consists of a 5201-2001 riveted to a larger aluminum mounting plate that is the same footprint as the original 5201.

The new product has wires that exit the product at the mounting surface and directed horizontally. Whereas the legacy product had electrical wires that exit from the top of the device directed vertically.

We do not anticipate customers having any mechanical compatibility issues related to this change, however many installations are unique, and all customers should verify sufficient compatibility of the new products.

## 4 Dimensional & Feature Comparisons

Feature / Dimension	5201 Rev 3.3 (Current Version)	5201 Rev 4.0 (New Revision)	5201-2001	5601B
Power Input Wire	12 AWG Red w/Inline Fuse holder, 12" Long			
Power Output Wire	12 AWG Orange, 18" Long	12 AWG Orange, 24" Long		
Local LED Indicators	One Red, One Green	Single Red / Green Bi-Color		
External Ignition Input Wire	18 AWG Yellow, 18" Long	18 AWG Yellow, 24" Long		
External Ground Reference Wire	18 AWG Black, 18" Long	18 AWG Black, 24" Long		
Over Voltage Protection	16.5 V / 15 s	17.0 V / 15 s	17.0 V / 15 s	17.0 V / 15 s
Under Voltage Protection	Always On 10.5 Vdc / 15 sec	Always On 10.5 Vdc / 15 sec	Always On 10.5 Vdc / 15 sec	Optional: Off, 11.0, 11.5, 12.0 Vdc
Voltage Sensing Operation	Always On	Always On	Always On	Dip Switch Option On or Off
Time Delay Options	5 sec to 16 hr	5 sec to 16 hr	5 sec to 16 hr	5 sec to 8 hr
Location of Dip Switches	Bottom of Unit Under Label	Bottom of Unit Under Removable Cover		
Sealing	Water Resistant IP65	Water Resistant IP65	Water Resistant IP65	Water Resistant IP65
Mounting Hole Qty / Size	Four / #10 Screw	Four / #10 Screw	Two / #10 Screw	Two / #10 Screw
Mounting Space (Device)	12.7 sq. inches	12.6 sq. inches	3.2 sq. inches (4x smaller)	3.2 sq. inches (4x smaller)
Volume Space (Device)	13.5 cu. inches	13.3 cu. inches	2.8 cu. Inches (5x smaller)	2.8 cu. Inches (5x smaller)

## 5 Product Dimensional Comparison

CURRENT Rev 3.3 OF PRODUCT (5201)	NEW Rev 4.0 VERSION OF PRODUCT (5201)

NEW PRODUCT (5201-2001)	NEW PRODUCT (5601B)

## 6 Product / Revision Discontinuation



After the release of this PCN there will be a short transition time whereby the incumbent Rev 3.3 of the 5201 product may be available for purchase depending on component availability of the old revision. After the completion of the transition, only the new revision 4.0 will be available. This includes products that fall under the RMA process where Egis Mobile Electric will provide the new Rev 4.0 product for warranty replacement purposes of the original Rev 3.3 of the 5201.

## 7 Contact Information

<b>Phone</b>	+1-360-768-1211
<b>Email</b>	sales@egismobile.com

## 8 Summary of Differences:

### 5201 Power Tamer VS / 5601B PT Series Time Delay Relay

Feature / Dimension	5201	5601B	Difference
Appearance			
Footprint / Volume	12.7 sq in / 13.5 cu in	3.2 sq in / 2.8 cu in	4x – 5x Smaller
Control & Output Wire Length	18 Inches	24 Inches	Longer Wires
Under Voltage Protection	Always On 10.5 Vdc / 15 sec	Optional: Off, 11.0, 11.5, 12.0 Vdc	More Options
Voltage Sensing Operation	Always On	Dip Switch Option On or Off	More Options
Off State Current Draw	7 milli-Amps	1.5 milli-Amps	Lower Power Draw
Time Delay Options	5 sec to 16 hr	5 sec to 8 hr	Shorter Time Range *** (1)
Over-Current Protection	25 Amp Inline Fuse	40 Amp Inline Fuse / Internal Thermal Overload Shut-down Self-Protection	Better
Max Current @ 50 C	20 Amps	30 Amps	Higher Current
Mounting Holes (Qty / Size)	Four / #10 Screws	Two / #10 Screws	Quicker Assembly
Wire Input / Output Orientation	Top of Device, Vertically Upward	Bottom of Device Along Mounting Surface	Better
Dip Switch Location / Protection	Bottom Side of Device, Under Label	Bottom Side of Device, Under Sealed Cover	Better
Pricing	\$\$	\$	Lower Price
Product Warranty	Two (2) Years	Four (4) Years	Better

(1) Contact Egis Mobile Electric for optional extended time-delay version of 5601B