



MANUAL

PTG Controller Quick Start Guide



Power Technology Southeast, Inc.
634 SR 44 W.
Leesburg, FL 34748
352-365-2777
Fax: 352-787-5545
www.powertech-gen.com

Please read these instructions carefully prior to installing and operating this generator. If you have any questions please feel free to contact us at 800-760-0027 or via our website at www.powertech-gen.com

The use of any spare parts that are not genuine or not expressly authorized shall free Power Technology Southeast, Inc. from any warranty liability and any responsibility concerning conformity to regulations and relevant consequences.

Installation, after-sales modifications and maintenance must be carried out by adequately trained staff.

Table of Contents

1. Introduction	4
2. Using the Controller	5
2.1. Front Panel Items	
2.2. Using the Menu System	
2.3. Modes, Starting and Stopping Methods	

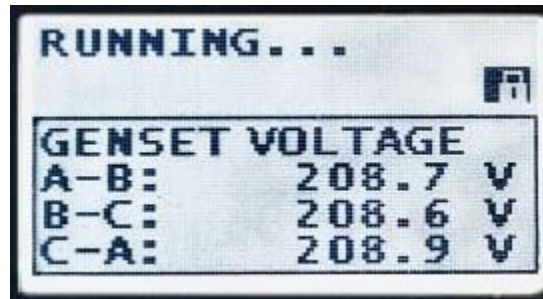
1 Introduction

The PTG series controllers are designed to provide complete control, protection, AC metering, and engine instrumentation for both standard and electronic engines. The module is easily configured using either the front panel buttons. PTG series controllers are ideally suited for severe duty applications where reliability is critical such as mobile and stationary generators.










2 Using the Controller

The LCD display is the primary source of information of the controller. The LCD allows you to view/change settings and monitor the status of sensors and other engine peripherals.



2.1 Front Panel Items

Item	Name	Description
	Off Button	Used for turning off the engine or exiting out of Auto mode. This is not intended to function as an Emergency Stop as there are conditions in which it will not shutdown the engine.
	Auto Button	Used for placing the controller into Auto mode. Once in Auto the controller waits for a start command to be received.
	Run Button	Used to start the engine manually. Must use the Off button to shutdown the engine if started from front panel.
	Up Button	Used for moving around in the menu, changing a settings value, or changing the currently displayed parameter page.
	Enter Button	Used for entering the menu system, accepting settings, or locking the LCD screen when viewing parameters.
	Down Button	Used for moving around in the menu, changing a settings value, or changing the currently displayed parameter page.
	Generator LED	Green = Engine running with no issues Amber = Engine running with warnings Red = Engine shutdown on failure

2.2 Using the Menu System

Task	Description
Entering Menu	When in the OFF mode, press the enter button to bring up the menu.
Navigating Menu	Once in the menu, use the up and down arrows to navigate. Pressing enter will move you into that menu.
Scroll Parameters	When in Auto or Running mode, pressing the up and down arrows will scroll through the parameters pages.
Lock Screen	When in Auto or Running mode, you can lock the screen onto a certain parameter page by pressing enter. You can unlock the screen by pressing enter again.
Events History	Once in the menu, select Events History to view the most recent controller event. Use the up and down arrows to navigate to other events. The controller can store up to 150 events. If more than 150 events occur, the oldest event is deleted to make room for the next event.

2.3 Modes, Starting and Stopping Methods

The following table describes the different operating modes of the controller:

Modes

Mode / State	Description
OFF	When in the OFF mode, the engine cannot be remotely started.
Auto	When in the Auto mode, the engine waits to receive a start command.
Running	When engine is Running, the controller monitors engine parameters and waits to receive a stop command.
Failure	When a failure occurs, the controller shuts down the engine and displays reason for failure. The unit must be reset using the front panel OFF button with the exception of Modbus.
Menu	When in the menu you can change settings and view the events history.

The following table describes the different methods in which a controller can start. The controller *must* be in the AUTO mode in order to start for all methods with the exception of Manual Run.

Starting and Stopping Methods

Methods	Description
Manual Run	Pressing the Run button will start the engine. You must press the OFF button to shutdown the engine.
Remote Start / Stop Input	When in AUTO mode remote starting of the engine is enabled.
Battery Recharge <i>(optional)</i>	When the battery voltage drops below a certain level the engine will start and run for a predetermined amount of time.
Exerciser <i>(optional)</i>	When the scheduled exerciser interval occurs the engine will start and run for a predetermined amount of time.
Auxiliary Sensors	When a properly configured Auxiliary sensor falls below / rises above a certain point the engine will start as determined by the Auxiliary Sensors -> Mode Select settings.

NOTE: Required Start / Stop signal type (Maintain or Momentary) is requested through Power Technology's Sales Department. For determining the Start / Stop signal type, if unknown, please contact Power Technology's Customer Service.