2 Wire Remote Start Controller

The 2WIRE-AS-1 2 Wire Remote Start SmartGen Controller with the Pramac CONN remote control connector plug is suitable for all 2 wire remote start applications for standby & prime power. Utilising the SmartGen auto start controller, the control box offers digital display, plug & play functionality & additional inputs. For standby applications, the control box comes complete with a built-in 12V automatic battery charger for the generator battery.

The controller is suitable for the Pramac models with the CONN remote control connector plug; S5000, S6500, S8000, S12000, P6000, P6000s & P9000

For further information or details, please contact your local

PRAMAC Authorised Australian Dealer

AUTO START CONTROLLER INSTALLATION / OPERATION MANUAL

Model: 2WIRE-AS-1 (PRAMAC)

Overview

The model 2WIRE-AS-1, 2 Wire Auto Start generator controller is ready to use with your P and S series PRAMAC Portable Generators that are fitted with the CONN remote control connector plug. This will enable you to use your Pramac Generator in various applications like Standalone Solar and Standby Emergency Power with an ATS (auto transfer switch).

Product Features

The 2WIRE-AS-1 controller is a basic 2 wire auto start accessory that manages the start/stop of the generator from a closed circuit open/closed contact from a third party control system like a solar inverter or ATS transfer switch. It also manages the basic generator running & protection to ensure easy operation. The package is supplied with a basic 12V battery charger for trickle charging of the generator battery during standby mode waiting for a start signal. Customers can use their own battery charging system but care must be taken to not over charge the battery voiding warranty. The basic setup is for a simple system suited for the PRAMAC Portable S & P series models with the CONN connector remote plug.
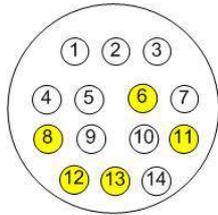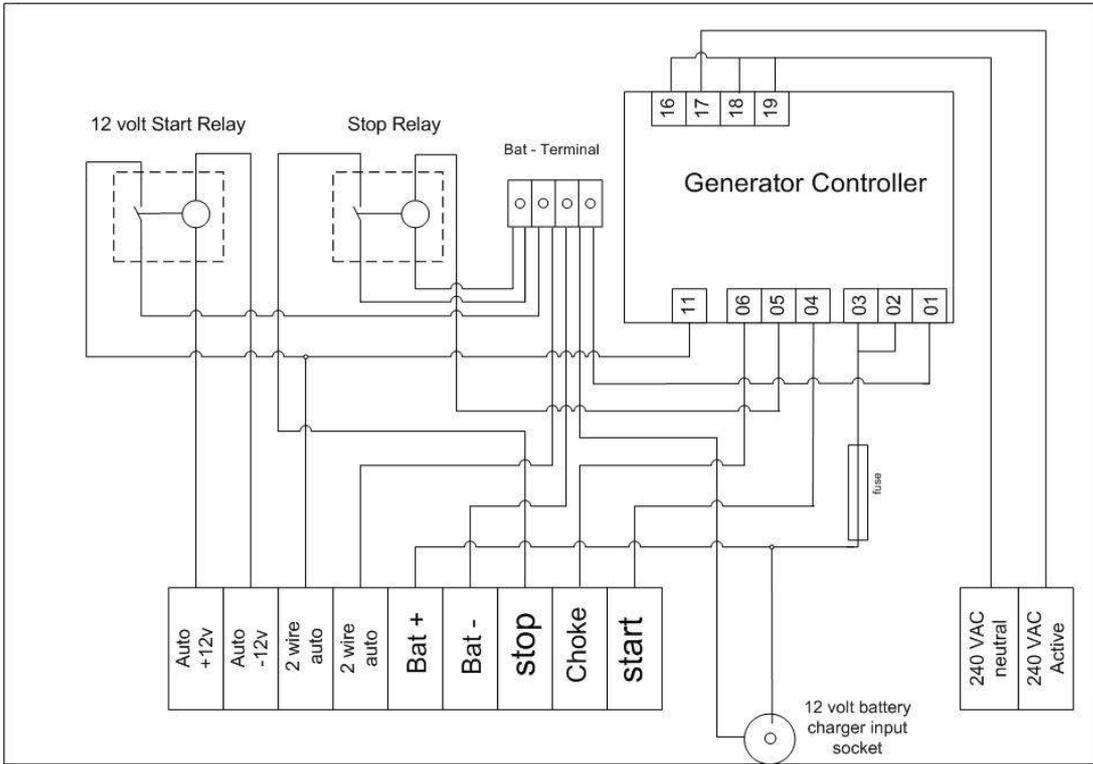
Installation

NOTE: PRAMAC Generators supplied with the 2WIRE-AS-1 can start automatically at anytime. For safe operation we advise the generator is clearly labelled advising that, **"Generator may start at anytime without warning"**. Turn the key off prior to refuelling, maintenance or storage. Also ensure that the generator is installed in a well-ventilated area, ensuring exhaust gases are not recycled back into the engine or where fumes could cause harm to people or animals.

The 2WIRE-AS-1 comes pre-wired, making it ready to plug into your PRAMAC Generator. The control plug will connect directly into the Pramac CONN Remote Control connector plug on the P & S series Portable Generators. It also comes standard with a 3 pin plug top that is plugged into your generator output socket or hardwired into the generator, giving the controller the required generator voltage feedback (NOTE; must be installed for controller to operate correctly). If the 230 volt feedback wire is required to be hard wired, just cut the plug off and hard wire it to a suitably protected generator output circuit. The 2WIRE-AS-1 can also start the generator off a 12 volt DC signal, you just have to move the flex into the Auto 12v terminals inside the controller enclosure. Due to there being a small load on the battery when the controller is in Auto mode, a battery charger is also provided to keep your battery in a fully charged state. Just plug your 'plug pack' style charger into the provided socket on the base of the controller. You can also use a suitable small solar panel regulated changer plugged into the same socket.

Operation

To operate your 2WIRE-AS-1 controller, simply connect as above and turn the generator key to the 'ON' position. The LCD screen on the controller will power up, allowing you to either manual start/stop the generator or activate AUTO mode. To manually start the generator you can either use the key on the set, or simply press the green start button. This will initiate the start sequence of the controller, with a small delay before the generator starts to turn over. If there are any problems, and the generator fails to start, an error code will appear on the LCD panel. Your generator has been pre-delivery tested, but if you have any problems, it is recommended to do the initial start up using the key start. To stop the generator, press the red Stop button. This will initiate the stop sequence, but the generator will not shut down straight away due to 30 second cool down cycle.

To set the controller to start from the 2 wire or 12 volt signal automatically, simply press the middle AUTO button. The LED indicator above the AUTO button will illuminate showing you that it is in AUTO mode. As noted above, please make sure that you have a 12 volt battery charger source plugged in to offset the small load on the battery while in Auto mode. Once the controller has received the start signal there is a short delay while the controller goes through its start sequence. Once the controller reads a voltage from the alternator/generator, it will complete the start cycle and keep the generator running until the stop signal is received. Once the 2 wire or 12 volt run signal is removed the generator will go into the stop mode, with a 30 second cool down delay meaning the generator will not stop straight away.

12 volt Start Relay Stop Relay Bat - Terminal

Generator Controller

16 17 18 19

11 06 05 04 03 02 01

fuse

Auto +12v | Auto -12v | 2 wire auto | 2 wire auto | Bat + | Bat - | stop | Choke | start

12 volt battery charger input socket

240 VAC neutral | 240 VAC Active

1	2	3
4	5	6	7
8	9	10	11
12	13	14

6	BATTERY +	RED
8	BATTERY -	BLACK
11	CHOKE	
12	START	
13	STOP	

AUTO START MODULE

Model HGM1770

Connection points for 12V start

Connection points for "Volt Free" contacts

12V Auto Start

Auto Start "Volt Free"

Gen battery power

230/240V Gen feedback