

Xantrex™ XW Automatic Generator Start

865-1060 Quickstart Guide

Important Safety Instructions

SAVE THESE INSTRUCTIONS

This sheet contains important safety and operating instructions. Before using this product, be sure to read, understand, and save these instructions.

⚠ WARNING: Restrictions on use

The Schneider Electric Xantrex XW Automatic Generator Start shall not be used in connection with life support systems or other medical equipment or devices.

⚠ WARNING: Safety hazard

Disable the Xantrex XW Automatic Generator Start if the generator or vehicle equipped with the generator is in an enclosed building or area where the generator exhaust is not vented to the outside.

Note: The full Owner's Guide in your language is available for download at www.schneider-electric.com

General Precautions

1. Before installing and using the Xantrex XW Automatic Generator Start, read all appropriate sections of the Owner's Guide.
2. Do not dismantle the Xantrex XW Automatic Generator Start; it contains no user serviceable parts. See the Owner's Guide for instructions on obtaining service.
3. Protect the Xantrex XW Automatic Generator Start from rain, snow, spray, and water.
4. Before wiring this device and before performing system maintenance, disable the automatic starting circuit and/or disconnect the generator from its starting battery to prevent accidental starting.
5. To reduce the risk of electrical shock, put the Xantrex XW Power System into Standby mode before working on any circuits connected to it. For more information, see the Owner's Guide.
6. If the Xantrex XW Automatic Generator Start is inoperative, see Warranty card.

Explosive Gas Precautions

⚠ WARNING: Explosion hazard

This equipment is not ignition protected. To prevent fire or explosion, do not install this product in locations that require ignition-protected equipment. This includes any space containing gasoline-powered machinery, fuel tanks, as well as joints, fittings, or other connections between components of the fuel system.

Follow all relevant instructions exactly before installing or using your XW Automatic Generator Start.

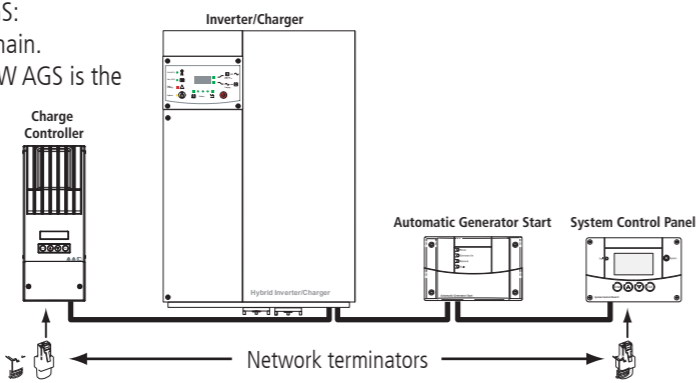
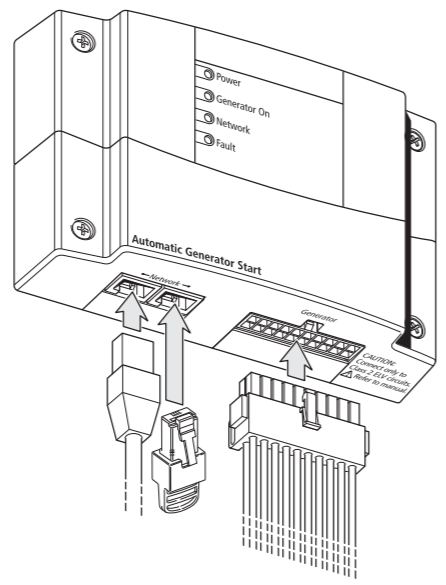
Installation

Installing the Xantrex XW AGS involves the following steps:

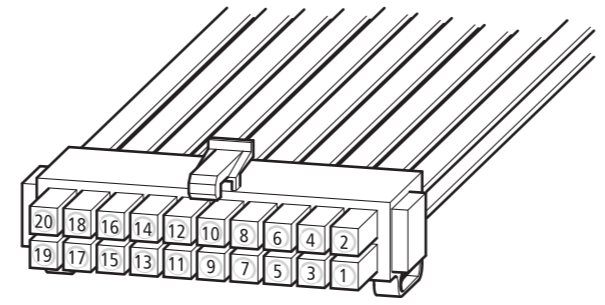
1. Mounting the unit.
2. Connecting the wiring harness to:
 - the generator
 - thermostats (optional)
 - external shutdown switch (optional)
 - external ON/OFF switch and LED (optional)
3. Connecting the wiring harness to the 20-contact connector on the Xantrex XW AGS.
4. Connecting the Xantrex XW AGS to Xantrex Xanbus™

To connect the Xantrex XW AGS to Xantrex Xanbus, plug a Xantrex Xanbus cable (standard straight-through Ethernet cable—CAT 5e) into one of the network ports on the bottom panel of the Xantrex XW AGS. Connect the other end of that same cable to the next Xantrex Xanbus-enabled device in the chain. Depending on the layout of the Xantrex Xanbus system, the following options are available for the other Xantrex Xanbus connector on the Xantrex XW AGS:

- A second network cable to another device in the chain.
- A Xantrex Xanbus terminator (when the Xantrex XW AGS is the last device at one end of the network).



Wiring Harness Wires and Functions



- | | |
|----|---|
| 1 | Thermostat 1 input (Yellow) |
| 2 | Thermostat 1 return (Gray) |
| 3 | Thermostat 2 input (Orange) |
| 4 | Thermostat 2 return (Gray) |
| 5 | External shutdown input (White/Black) |
| 6 | External shutdown return (Gray) |
| 7 | External manual on input (White/Green) |
| 8 | External manual off input (White/Red) |
| 9 | External ON/OFF LED Indicator output (White/Blue) |
| 10 | Constant 12/24 V B+ (battery positive) for External ON/OFF/LED Indicator (Red) |
| 11 | External ON/OFF/LED Indicator return (connected internally to wire number 13) (Black) |
| 12 | Generator run signal (switched B+) sense input (Violet) |
| 13 | Generator run signal (switched B+) sense return (Black) |
| 14 | Relay 1 (Generator run/stop) Normally open contact (Blue) |
| 15 | Relay 1 (Generator run/stop) Normally closed contact (White/Violet) |
| 16 | Relay 1 (Generator run/stop) Common contact (Gray) |
| 17 | Relay 2 (Generator start) Normally open contact (White) |
| 18 | Relay 2 (Generator start) Common contact (Gray) |
| 19 | Relay 3 (Preheat/cooldown) Normally open contact (Brown) |
| 20 | Relay 3 (Preheat/cooldown) Common contact (Gray) |

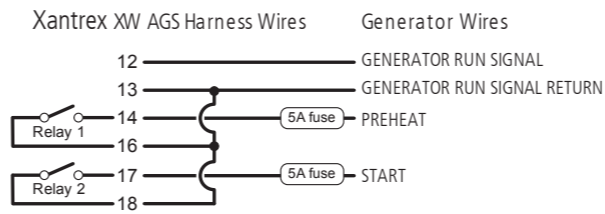
Connecting the Generator

The Xantrex XW AGS has 14 preset generator configurations, or "Gen Types". After installing the hardware, select one of these Gen Types from the Xantrex XW AGS Configuration Menu on the Xantrex XW System Control Panel. See the Wiring and Timing Diagrams that follow.

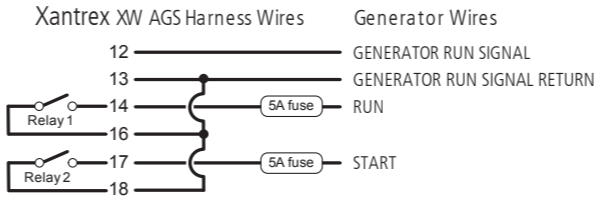
⚠ CAUTION: Equipment Damage

Consult your generator manufacturer to ensure that Gen Type settings and connections are compatible with your generator. Damage to the generator can result from selecting an incorrect Gen Type and following the connection diagram for an incorrect Gen Type when connecting the Xantrex XW AGS to the generator. Xantrex assumes no responsibility or liability for loss or damage that might arise out of the use of this information.

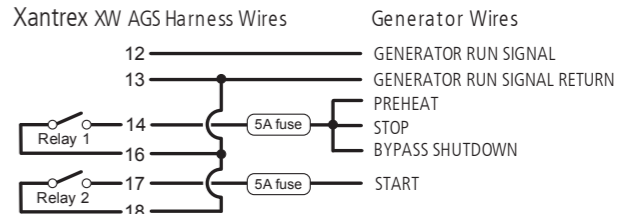
Type 1



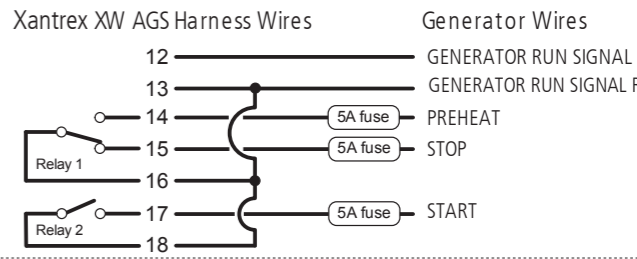
Type 2



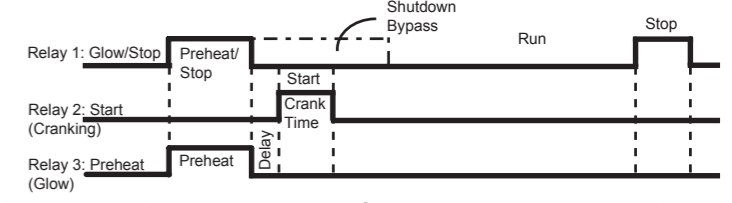
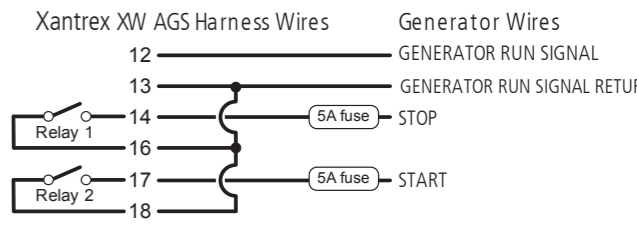
Type 3



Type 6

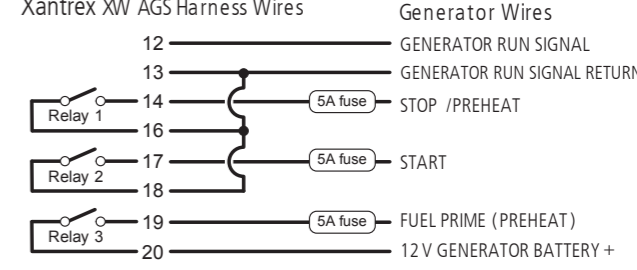


Type 12

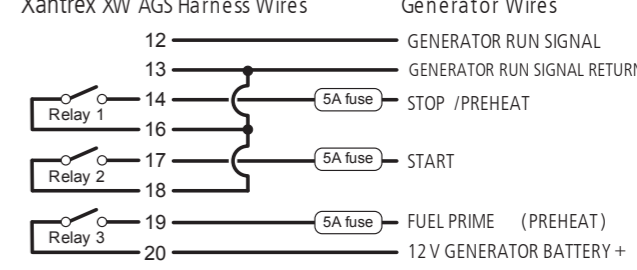


GlowStop Mode Timing Diagrams for Gen Types 1, 2, 3, 6, and 12

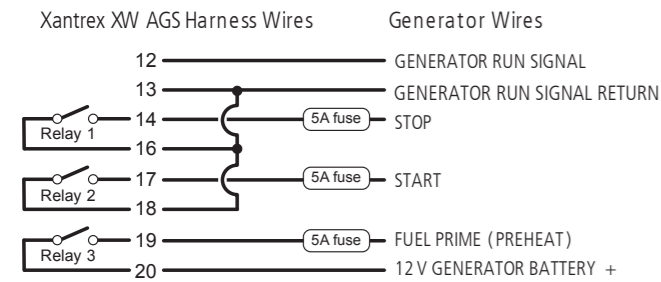
Type 4



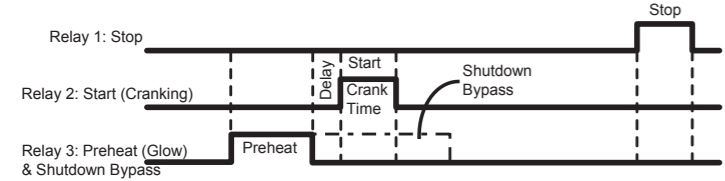
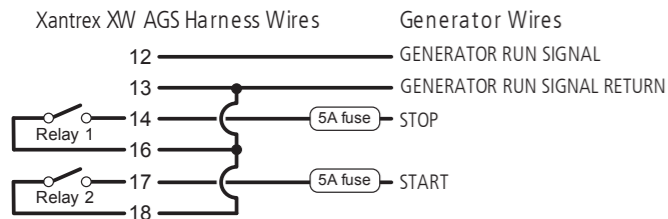
Type 5



Type 9

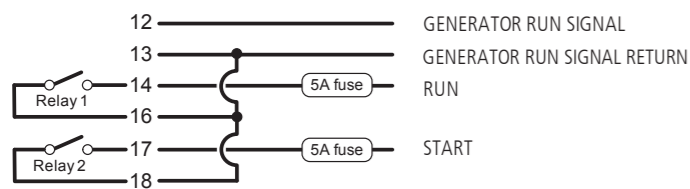
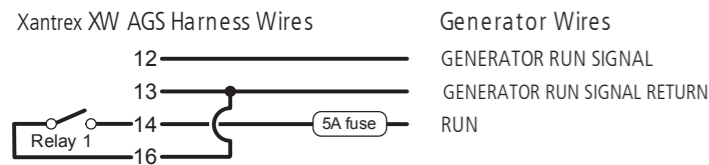


Type 10

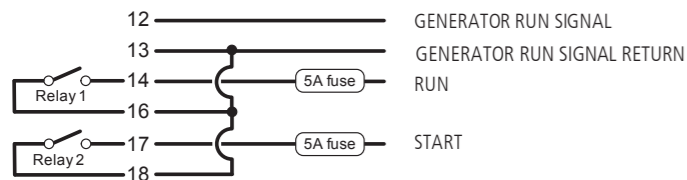
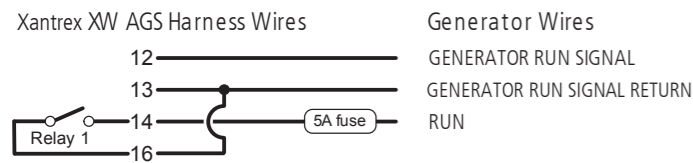


StartStop Mode Timing Diagram for Gen Types 4, 5, 9, and 10

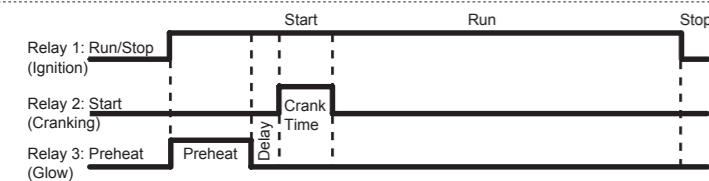
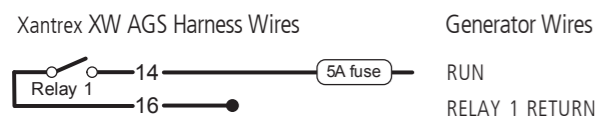
Type 7



Type 8

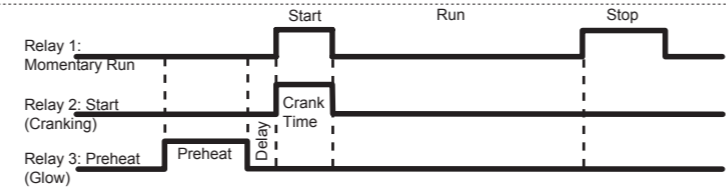
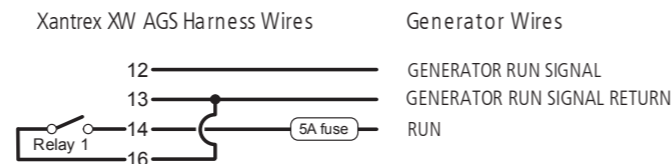


Type 14



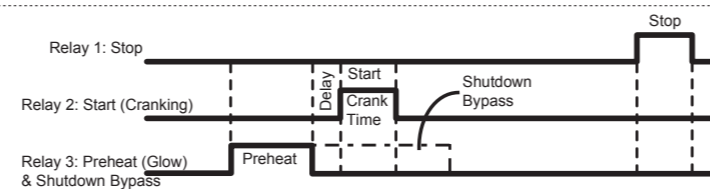
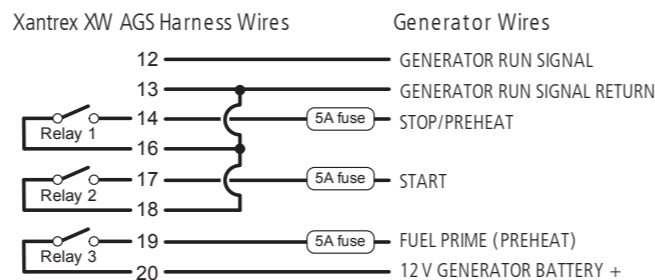
RunMode Timing Diagram for Gen Types 7, 8, and 14

Type 11

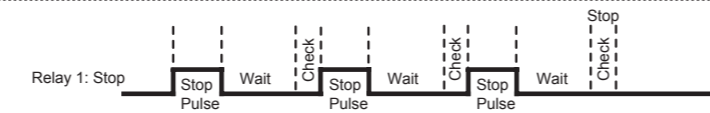


MomentaryRun Mode Timing Diagram for Gen Type 11

Type 13



PulseStop Mode Timing Diagram for Gen Type 13



PulseStop Mode Relay 1 Behavior

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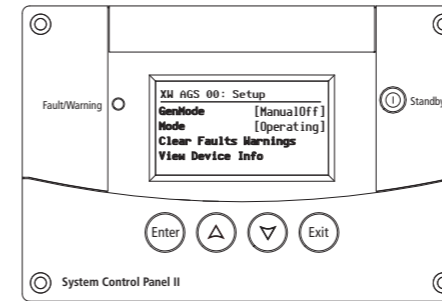
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Contact Information

www.schneider-electric.com
Please contact your local Schneider Electric Sales Representative or visit our website at:
<http://www.schneider-electric.com/sites/corporate/en/support/operations/local-operations/local-operations.page>

Xantrex XW AGS Configuration Menus

The Xantrex XW AGS is configured using the Xantrex XW AGS menu on the Xantrex XW System Control Panel. On the Xantrex XW AGS menu, you can change Xantrex XW AGS settings, select the generator's operating mode, clear fault warnings and view device information.



XW AGS 00: Setup	
Advanced Settings	
GenMode	[ManualOff]
Mode	[Operating]
Clear Faults Warnings	
View Device Info	

To view configuration menus, highlight Advanced Settings and press Enter.

To view Advanced Settings, from the Xantrex XW AGS Setup menu, press Enter, Up arrow, and Down arrow buttons simultaneously.

XW AGS 00: Config	
QT	[Enabled]
QT Begin	[9:00PM]
QT End	[8:00AM]
Gen Type	[2]
Cfg Trigger	
Cfg Gen	
Multi Unit Config	
Restore Defaults	
Adv Features	

XW AGS 00: Triggers	
Start DCV 30 sec	[44.0V]
Start DCV 15 min	[Disabled]
Start DCV 2 hr	[Disabled]
Start DCV 24 hr	[Disabled]
Stop Float	[Enabled]
Stop Absorb	[Disabled]
Stop V	[Disabled]
Temp1	[Disabled]
Temp2	[Disabled]
Load	[Disabled]
Strt Load	[15A]
Stop Load	[10A]

XW AGS 00: Gen	
Starter Cool Down	[1sec]
Gen Cool Down	[30sec]
Gen Spin Down	[600sec]
Max Runtime	[8hours]
Exercise Per	[21days]
Exercise Dur	[30min]
Exercise Time	[9:00AM]
Relay 3	[NotUsed]
Gen Run Hold Time	[0.0sec]
Crank Delay	[0sec]
Crank Time	[0sec]
Crank Retry Time	[0sec]
Preheat Time	[0sec]
Gen Start Tries	[1]

XW AGS 00: Multi	
Dev Name	[AGS]
Dev Number	[00]
Connections	

XW AGS 00: Conn	
DC Conn	[HouseBatt1]
AC In	[Grid1]
AC Out	[ACLoad]
Generator	[Gen1]