Xantrex™ XW Automatic Generator Start   865-1060 Quickstart Guide

GBR

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 and Product Information" in the Owner's Guide.

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.

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).
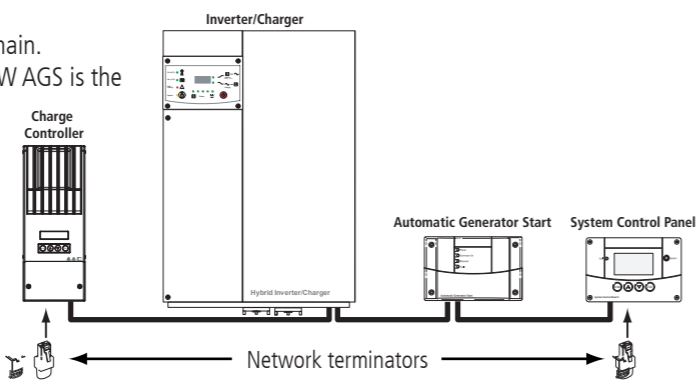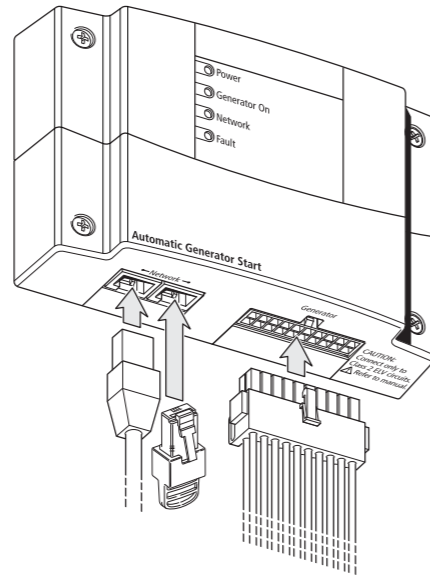
Wiring Harness Wires and Functions
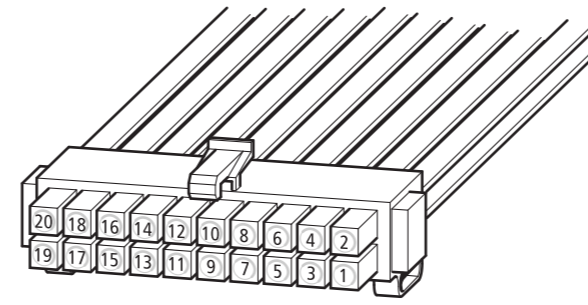
|	
1	Thermostat 1 input (Yellow)
2	Thermostat 1 return (Gray)
3	Thermostat 2 input (Orange)
4	Thermostat 2 return (Gray)
5	External shutdown input (White/Black)
6	External shutdown return (Gray)
7	External manual on input (White/Green)
8	External manual off input (White/Red)
9	External ON/OFF LED Indicator 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.
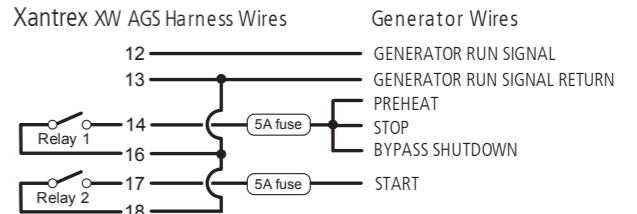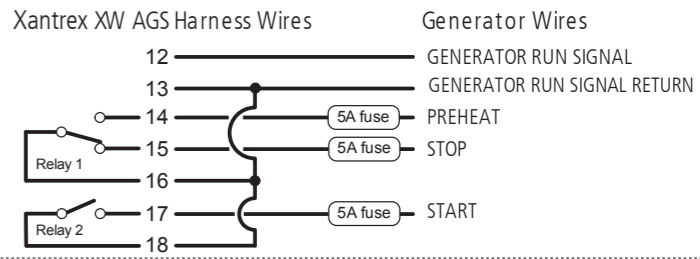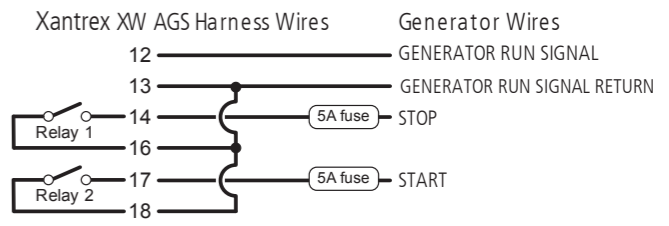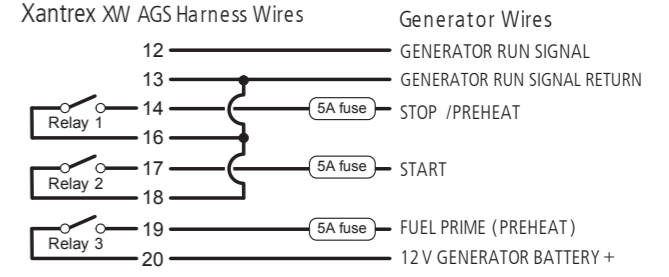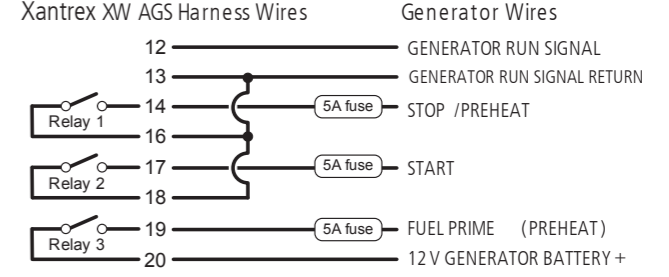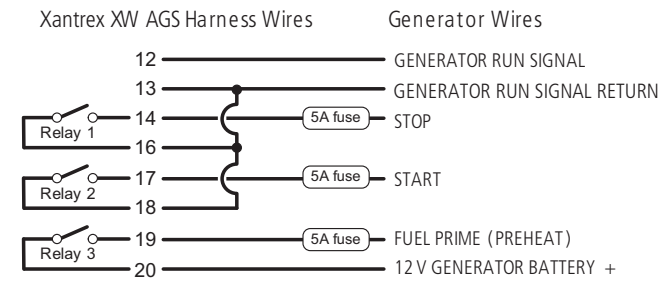
Type 1
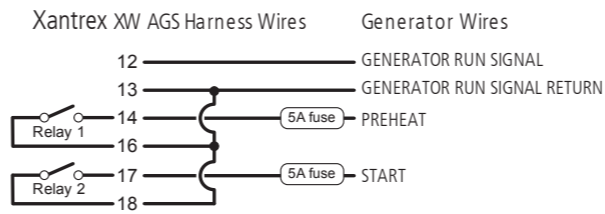
Type 2
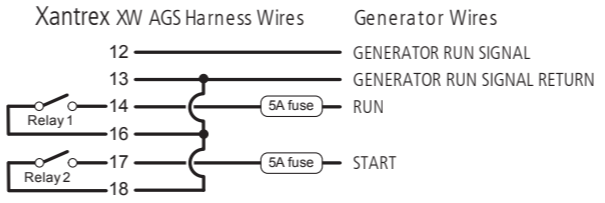
Type 3

Type 6

Type 12

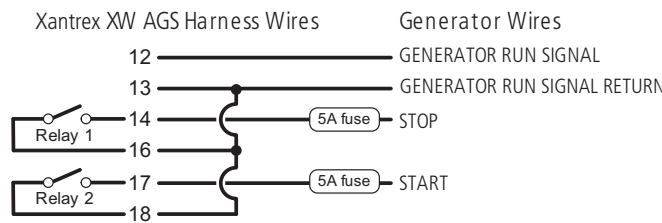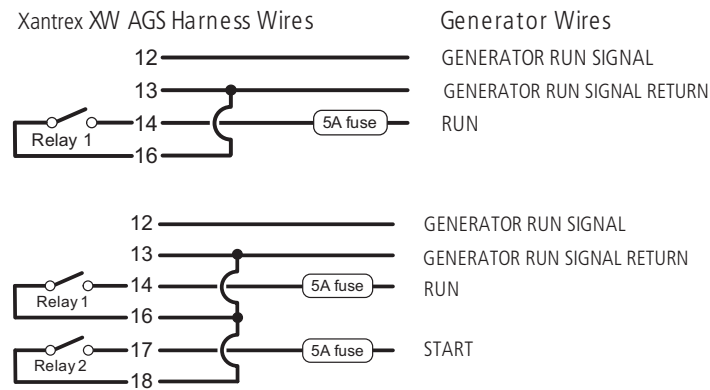**GlowStop Mode Timing Diagrams for Gen Types 1, 2, 3, 6, and 12**

Type 4

Type 5

Schneider Electric

Type 9

Xantrex XW AGS Harness Wires — Generator Wires

- 12 — GENERATOR RUN SIGNAL
- 13 — GENERATOR RUN SIGNAL RETURN
- Relay 1 — 14 — 5A fuse — STOP
- 16
- Relay 2 — 17 — 5A fuse — START
- 18
- Relay 3 — 19 — 5A fuse — FUEL PRIME (PREHEAT)
- 20 — 12 V GENERATOR BATTERY +

Type 10

Xantrex XW AGS Harness Wires — Generator Wires

- 12 — GENERATOR RUN SIGNAL
- 13 — GENERATOR RUN SIGNAL RETURN
- Relay 1 — 14 — 5A fuse — STOP
- 16
- Relay 2 — 17 — 5A fuse — START
- 18

Relay 1: Stop — Stop
Relay 2: Start (Cranking) — Delay / Start / Crank Time / Shutdown Bypass
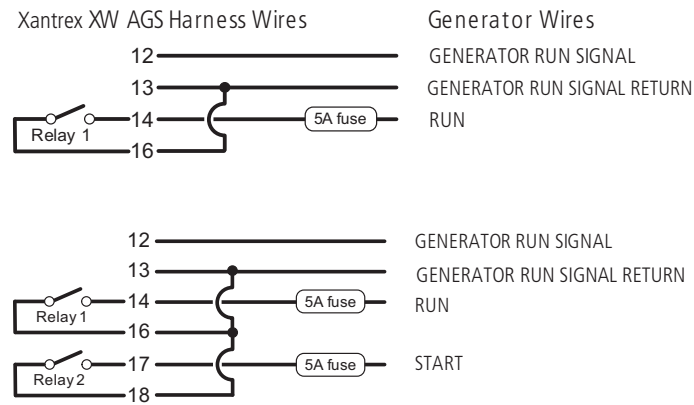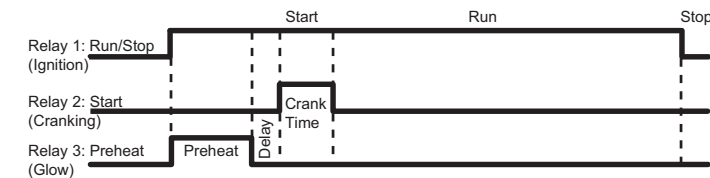Relay 3: Preheat (Glow) & Shutdown Bypass — Preheat

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

Type 7

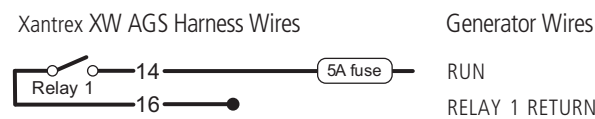Xantrex XW AGS Harness Wires — Generator Wires

- 12 — GENERATOR RUN SIGNAL
- 13 — GENERATOR RUN SIGNAL RETURN
- Relay 1 — 14 — 5A fuse — RUN
- 16

- 12 — GENERATOR RUN SIGNAL
- 13 — GENERATOR RUN SIGNAL RETURN
- Relay 1 — 14 — 5A fuse — RUN
- 16
- Relay 2 — 17 — 5A fuse — START
- 18

Type 8

Xantrex XW AGS Harness Wires — Generator Wires

- 12 — GENERATOR RUN SIGNAL
- 13 — GENERATOR RUN SIGNAL RETURN
- Relay 1 — 14 — 5A fuse — RUN
- 16

- 12 — GENERATOR RUN SIGNAL
- 13 — GENERATOR RUN SIGNAL RETURN
- Relay 1 — 14 — 5A fuse — RUN
- 16
- Relay 2 — 17 — 5A fuse — START
- 18

Type 14

Xantrex XW AGS Harness Wires — Generator Wires

- Relay 1 — 14 — 5A fuse — RUN
- 16 — RELAY 1 RETURN

Relay 1: Run/Stop (Ignition) — Start / Run / Stop
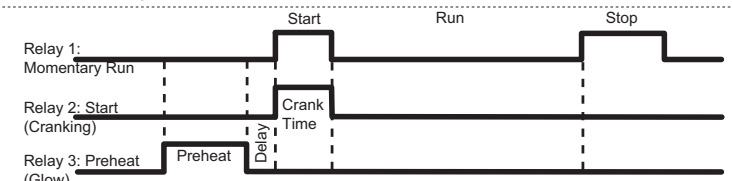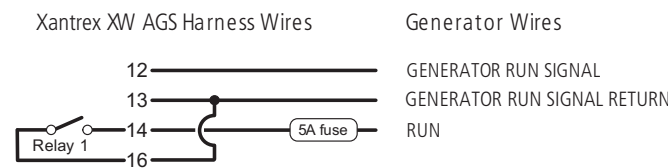Relay 2: Start (Cranking) — Delay / Crank Time
Relay 3: Preheat (Glow) — Preheat

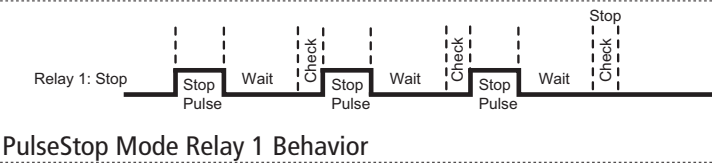**RunMode Timing Diagram for Gen Types 7, 8, and 14**

Type 11

Xantrex XW AGS Harness Wires — Generator Wires

- 12 — GENERATOR RUN SIGNAL
- 13 — GENERATOR RUN SIGNAL RETURN
- Relay 1 — 14 — 5A fuse — RUN
- 16

Relay 1: Momentary Run — Start / Run / Stop
Relay 2: Start (Cranking) — Crank Time
Relay 3: Preheat (Glow) — Preheat / Delay

MomentaryRun Mode Timing Diagram for Gen Type 11

Type 13

Xantrex XW AGS Harness Wires — Generator Wires

- 12 — GENERATOR RUN SIGNAL
- 13 — GENERATOR RUN SIGNAL RETURN
- Relay 1 — 14 — 5A fuse — STOP/PREHEAT
- 16
- Relay 2 — 17 — 5A fuse — START
- 18
- Relay 3 — 19 — 5A fuse — FUEL PRIME (PREHEAT)
- 20 — 12 V GENERATOR BATTERY +

Relay 1: Stop — Stop
Relay 2: Start (Cranking) — Delay / Start / Crank Time / Shutdown Bypass
Relay 3: Preheat (Glow) & Shutdown Bypass — Preheat
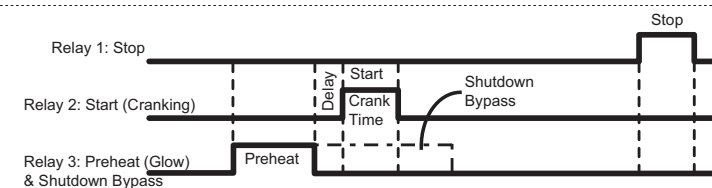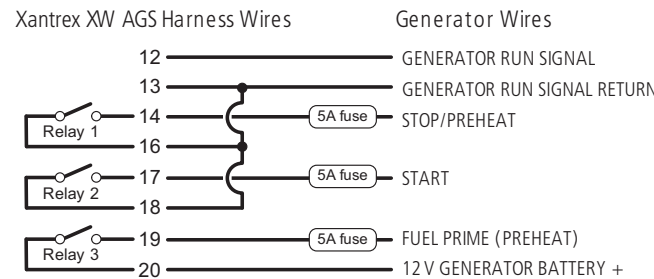
PulseStop Mode Timing Diagram for Gen Type 13

Relay 1: Stop — Stop Pulse / Wait / Check / Stop Pulse / Wait / Check / Stop Pulse / Wait / Check / Stop

PulseStop Mode Relay 1 Behavior

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.

[System Control Panel II display showing:]
XW AGS 00: Setup
GenMode   [ManualOff]
Mode   [Operating]
Clear Faults Warnings
View Device Info

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

```
XW AGS 00: Setup
Advanced Settings
GenMode       [ManualOff]
Mode          [Operating]
Clear Faults Warnings
View Device Info
```
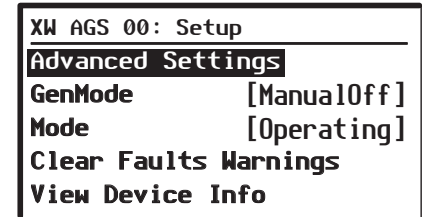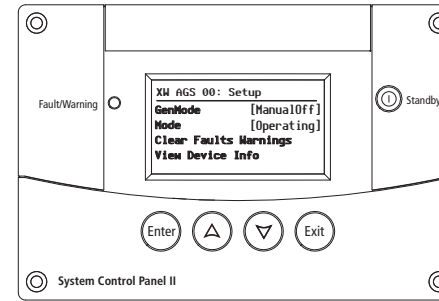
To view configuration menus, highlight Advanced Settings and press Enter.

```
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
```

```
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]
```

Contact Information

	North America	Germany	Italy	Spain
Tel:	1 650 351 8237 / 1 866 519 1470	+49 (0) 180 575 6575	+39 035 4151111	+34 93 498 7466
Fax:	1 604 422 2756	+49 (0) 2102 404 7101	+39 035415 3200	+34 93 305 5026
email:	re.techsupport@schneider-electric.com	solarservice@de.schneider-electric.com	IT-pronto-contatto@it.schneider-electric.com	re.techsupport@es.schneider-electric.com

website: www.schneider-electric.com

For other country details 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

CE