

WHELEN[®]

ENGINEERING COMPANY INC.

*Route 145, Winthrop Road,
Chester, Connecticut 06412*

Phone: (800) 63SIREN

Phone: (860) 526-9504

Fax: (860) 526-4078

Internet: www.whelen.com

Sales e-mail: iowsales@whelen.com

Customer Service e-mail: iowserv@whelen.com

AUXILIARY CONTROL/STATUS (AUXCS)

SERVICE GUIDE
(as used with the ESC2020 controller)

Outdoor Warning

Auxiliary Control/Status (AUXCS)

The WPS-2900 may be equipped with an optional module that allows the user to remotely control siren functions and to remotely collect siren status information. The following Whelen commands are supported:

- Cancel (or Clear)
- Wail
- Attack
- Alert
- Public Address
- Air Horn
- Hi/Low
- Whoop
- Noon Test
- Digital Voice Messages (1 - 16)
- Silent Test
- Silent Test Clear
- North*
- East*
- South*
- West*
- Clockwise*
- Counter-Clockwise*
- Strobe On
- Strobe Off

* = Not available for the WPS-2900

The following status bits are supported with Normally Open relay closures:

AC	AC Voltage is present
DC	DC Voltage level is good
Partial	At least one amplifier is active
Full	All amplifiers and drivers are active
Rotor	Rotor Active
Intrusion	Intrusion active

In addition to commands and status functions, the Auxiliary Control/Status Option has transformer coupled circuits for accepting audio. One circuit is active in conjunction with the Public Address command, while the other circuit is used for local audio, such as a local microphone or paging system. The local audio must have a “Push To Talk” contact closure for operation. In either case the audio is broadcast over the system.

To activate one of the supported commands, simply make a closure between the desired command input and ground. Typically, a relay is used to make a remote connection. An open collector device may be used, as long as it meets the electrical specifications of this document.

When an input is activated by a momentary closure, the siren function will run for the pre programmed time or until another command is activated. For example, the Cancel command will override a warning tone and silence the siren. Note that if a closure is maintained, it can not be overridden.

The local audio path operates a little differently than the other commands. The “Push To Talk” closure must be maintained for the duration of the command, however, the activation will automatically turn off if held active for more than 8 minutes.

The input cables may be up to 4,000 feet away, based on at least 26 AWG cable. Any audio cable must be shielded, twisted-pair and grounded at the audio source.

<u>Terminal Block 1</u> <u>Contact Number</u>	<u>Input Function</u>	<u>Terminal Block 1</u> <u>Contact Number</u>	<u>Input Function</u>
1.	Ground	24.	Message 9 Input
2.	Cancel Command Input	25.	Ground
3.	Wail Command Input	26.	Message 10 Input
4.	Attack Command Input	27.	Message 11 Input
5.	Alert Command Input	28.	Message 12 Input
6.	Public Address Command Input	29.	Message 13 Input
7.	Ground	30.	Message 14 Input
8.	Air Horn Command Input	31.	Ground
9.	Hi/Low Command Input	32.	Message 15 Input
10.	Whoop Command Input	33.	Message 16 Input
11.	Noon Test Input	34.	North Command Input
12.	Silent Test Command Input	35.	East Command Input
13.	Ground	36.	South Command Input
14.	Silent Test Clear Input	37.	Ground
15.	Message 1 Input	38.	West Command Input
16.	Message 2 Input	39.	Clockwise Command Input
17.	Message 3 Input	40.	CCW Command Input
18.	Message 4 Input	41.	Strobe On Command Input
19.	Ground	42.	Strobe Off Command Input
20.	Message 5 Input	43.	Ground
21.	Message 6 Input	44.	Remote Audio Input
22.	Message 7 Input	45.	Remote Audio Input
23.	Message 8 Input		

<u>Terminal Block 2</u> <u>Contact Number</u>	<u>Function</u>	<u>Terminal Block 2</u> <u>Contact Number</u>	<u>Function</u>
1.	AC Status N.O.	7.	Full Status N.O.
2.	AC Status N.O.	8.	Full Status N.O.
3.	DC Status N.O.	9.	Rotor Status N.O.
4.	DC Status N.O.	10.	Rotor Status N.O.
5.	Partial Status N.O.	11.	Intrusion Switch N.O.
6.	Partial Status N.O.	12.	Intrusion Switch N.O.

<u>Terminal Block 3</u> <u>Contact Number</u>	<u>Function</u>	<u>Terminal Block 3</u> <u>Contact Number</u>	<u>Function</u>
1.	Push To Talk Input	3.	Local Audio Input
2.	Push To Talk Ground	4.	Local Audio Input

Electrical Input Specifications

Minimum Closure Time 250ms
Low Level Current (min.): 35 mA
High Level Voltage (max): 32VDC
Audio Input Level: -17 to +10 dB

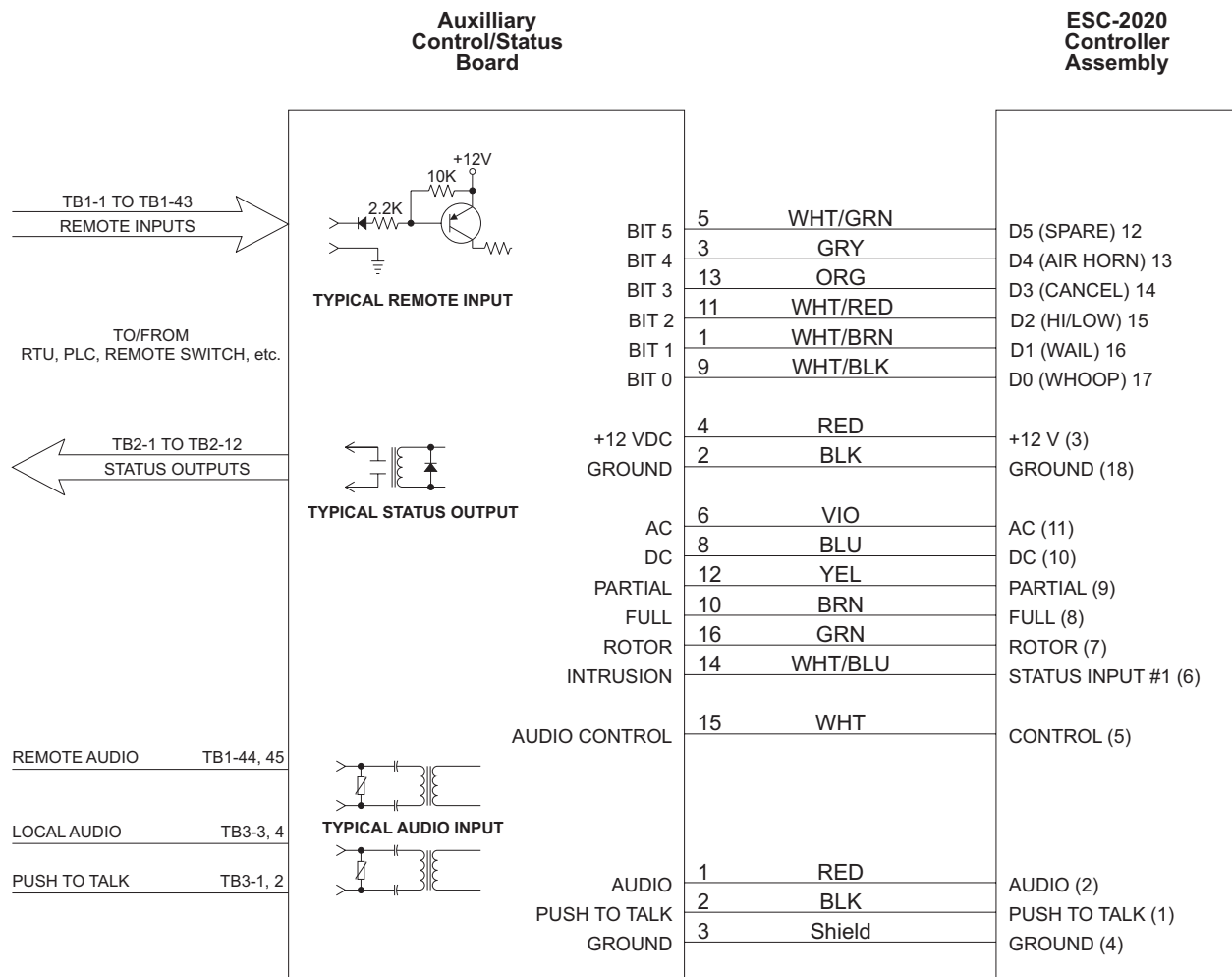
Electrical Output Specifications

Minimum Voltage Rating 24VDC
Current Rating: 250 mA

One (1) wiring harness is supplied to connect the ESC2020 Controller to the Auxiliary Control/Status (AUXCS) Option Board.

A 16-position connector, J1, as well as a 3-position connector, J2, are mounted onto the AUXCS circuit board. J1 controls the status and control functions available in the AUXCS board. J2 controls the PA/audio functions. The single harness comes out of the ESC2020 Controller with an 18-position connector, J11. All of the available functions of the AUXCS board are addressed through this one single harness.

Auxiliary Control/Status Board Wiring



There are three potentiometers for audio level adjustments on the AUXCS board. Refer to the diagram below for the location of these potentiometers.

The potentiometers are factory set for typical signal levels, however, some adjustment may be necessary depending on the actual audio source in the field.

The upper most potentiometer has been calibrated at the factory for a minimum clipping level. **THIS POTENTIOMETER SHOULD NOT BE ADJUSTED!** The Receive Audio and/or the Local Audio potentiometers are adjusted until the clipping indicator LED just starts to flicker on. The Local Audio potentiometer is the one toward the rear of the cabinet, while the Receive Audio potentiometer is the one toward the front of the cabinet.

NOTE: The front panel MIC VOLUME control should be set full volume (clockwise) if the AUXCS option is being used.

Auxiliary Control/Status Potentiometer Locations

