

Made in America

Pulsed Ionizing Bar Installation and Operating Instructions



Figure 1. 62406 Pulsed Ionizing Bar

The Pulsed Ionizing Bar combines the effectiveness of pulsed DC ionization with the ease of adjustability, communication capability and the flexibility of a micro-controller based design to produce a versatile ionization system. The Pulsed Ionizing Bar uses pulses of positive and negative ions to produce extended ionization coverage with or without forced air- flow.

Optional communication port, network software, and remote control (ZVI-IR) for adjustments are available.

Installation

Remove the Pulsed Ionizing Bar from the carton and inspect for shipping damage. Included with the unit should be:

1. Pulsed Ionizing Bar
2. Earth/grounding wire
3. 24V, 350mA power supply
4. Emitter point cleaner
5. Hanging Kit (optional)

Setup and Operation

The unit is powered by the 24V DC supply and begins working when plugged in. **Note:** the earth/grounding wire must be connected to the terminal on the unit and to earth/ground for the PIB3000 to work properly. The RS485 input/output ports for the optional software package are located on the back side towards the right end of the unit. The control buttons along with the LED display are located on the front side towards the right end of the unit. The control buttons are numbered left to right as shown in Figure 1. Button #1 (◀) corresponds to "Go Back", button #2 (▼) corresponds to "Decrease", button #3 (▲) corresponds to "Increase" and button #4 (▶) corresponds to "Go Forward".

When the Pulsed Ionizing Bar is first powered on, the unit will display its default address "000".

Specifications

- Balance
User adjustable
- Dimensions
1.5H"X1.5W"X (1, 2, 4, OR 6 FT) L
- Weight
1, 1.5, 2.5, OR 3.5 LBS Respectively
- Emitter Points
Machined tungsten
- High Voltage Power Supply
5kV
- Input Power
24V DC, 350mA
- Ion Emission
Pulsed DC open loop control
- Ozone
Less than 0.05ppm

Cleaning Procedure

To clean the Pulsed Ionizing Bar, first turn off and unplug the unit. The emitter points are easily cleaned using Semtronics part number S204-200 emitter point cleaner. To clean any dirt off of the bar itself, using clean compressed air is recommended or wiping with any suitable material.

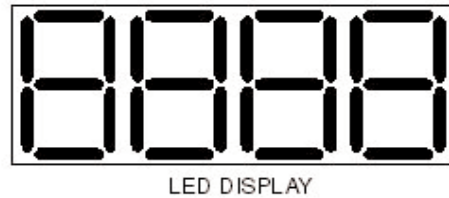
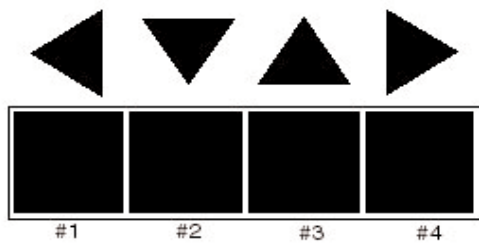


Figure 2

Set Up Mode

P r o g



Press ◀ and ▶ buttons simultaneously to go into the ionizer setup mode. When the buttons are released, the unit should beep once and "**Prog**" should appear momentarily on the LED display. The display will then show the period setting.

1. 6 P



Press ▼ or ▲ buttons to adjust the period from "**0.1P**" (shortest, 0.1 seconds), to "**10P**" (longest, 10 seconds), for acceptable balance swing and satisfactory decay time. Press the ▶ button to go to the next menu. The next menu is for the duty cycle adjustment.

5 0



Place the charge plate monitor under the middle of the ionizing bar. The number shown represents the duty cycle. The duty cycle is the percentage of time that the positive supply is on. For example, for a period of 10 seconds, selecting a 40% duty cycle corresponds to the positive supply being on for 4 seconds and negative being on for 6 seconds. Press and hold the ▼ button, (smaller duty cycle, more negative), or the ▲ button, (larger duty cycle, more positive), to adjust the balance for an even swing. For finer adjustment, use single clicks of the buttons to change in one percent increments. Press the ▶ button to save and exit. Press the ◀ button to go to the previous menu.

S A V E



To save and exit at any time during the setup mode press ◀ and ▶ buttons simultaneously. The Pulsed Ionizing Bar will save all settings and return to normal operation. The Pulsed Ionizing Bar will display "**SAVE**" and the status of the buttons "**On b**" for "on buttons" (meaning that the buttons are enabled), then the unit address.

O n b



(**Note:** the control buttons can be disabled, "OFF b", by the ZVI-IR remote control only.)

To change the unit network three digit address and enable/disable the remote control, use the following procedure.

1 2 3



Press ◀ and ▶ buttons simultaneously to go into the ionizer setup mode.

0. 8 P



The unit will display "**Prog**" momentarily and go to the "period setting" menu. Press the ◀ button to go back to the "address" menu.

1 2 4 A



The last digit of the address will be flashing. Press ▼ or ▲ buttons to change the last digit 0 to 9. Press the ◀ button to go to the second digit of the address.

1 5 4 A



The second digit of the address will be flashing. Press ▼ or ▲ buttons to change the second digit 0 to 9. Press the ◀ button to change first digit of the address.

2 5 4 A



The first digit of the address will be flashing. Press ▼ or ▲ buttons to change the first digit 0 to 2. Press the ◀ button to go to the enable/disable remote menu. (**Note:** address "000" is reserved as a network broadcast command. Do not use.)

O F F r



After pressing the ◀ button to go to the enable/disable remote menu, the display will show "**OFF r**" for "off remote", (default setting). This means that the unit will not respond to the remote control. To enable the remote, press ▼ or ▲ buttons and the display will read "**On r**" for "on remote".

Alarm Conditions

The Pulsed Ionizing Bar is able to detect low and high input voltages. It will sound a continuous tone audible alarm during all alarm conditions.

H I P



If the unit detects that the input voltage is too low, it will display "**LO P**" for low power and sound the audible alarm. If the unit detects that the input voltage is too high, it will display "**HI P**" for high power and sound the audible alarm.

TECHNICAL SUPPORT:

ESD Systems
432 Northboro Road Central
Marlboro, MA 01752
Tel: (508) 485-7390
Fax: (508) 480-0257

NOTE: Unauthorized servicing or modifications to your monitor will void the product warranty and may create dangerous conditions. Servicing should be performed only at the factory, or by a Semtronics approved technician.

LIMITED WARRANTY

Semtronics expressly warrants that for a period of one (1) year from the date of purchase, Semtronics 62260(ZVI-IR) will be free of defects in material (parts) and workmanship (labor). Within the warranty period, a unit will be tested, repaired, or replaced at our option, free of charge. Call Customer Service at 909-627-8178 (Chino, CA) or 781-821-8370 (Canton, MA) for Return Material Authorization (RMA) and proper shipping instructions and address. Include a copy of your original packing slip, invoice, or other proof of date of purchase. Any unit under warranty should be shipped prepaid to the Semtronics factory. Warranty replacements will take approximately two weeks. If your unit is out of warranty, Semtronics will quote repair charges necessary to bring your unit up to factory standards. Call Customer Service at 909-627-8178 for proper shipping instructions and address. Ship your unit freight prepaid.

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