

Page/Talk Line Balance Assembly

Model PTL

Installation & Operation

Overview

Guardian Telecom's PTL Page/Talk Line Balance Assembly provides the line loading resistors necessary to minimize noise, sidetone and crosstalk in a Page/Talk System.

The components of the Model PTL are enclosed in a weatherproof enclosure with a 1" NPT hub for ease of installation and wiring. Within the enclosure are connections for five fixed 33 Ohm resistors for Talk lines and one 33 to 133 Ohm variable resistor for the Page Line.

Guardian's Line Balance Assembly is compatible with systems provided by most other manufacturers.

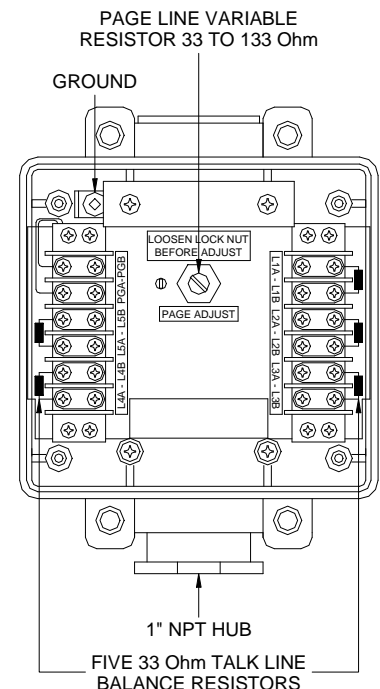
Installation

Mount the PTL Line Balance Assembly at a convenient location, preferably near to the middle of the Page/Talk system.

From a Page/Talk station or a junction box installed on the main cable connecting the system, run conductors from each Talk Line, the Page Line and Ground into the PTL enclosure. Minimum conductor size is 18 AWG. Do not run power conductors to the PTL. Connect the conductors to the designated terminals.

Refer to the instructions on page 2 for adjusting the Page Line variable resistor.

If the system has a Page/Talk Telephone Interface Unit installed or other devices that provide their own line loading disconnect the 33 Ohm resistor on the Talk Line assigned to that device.



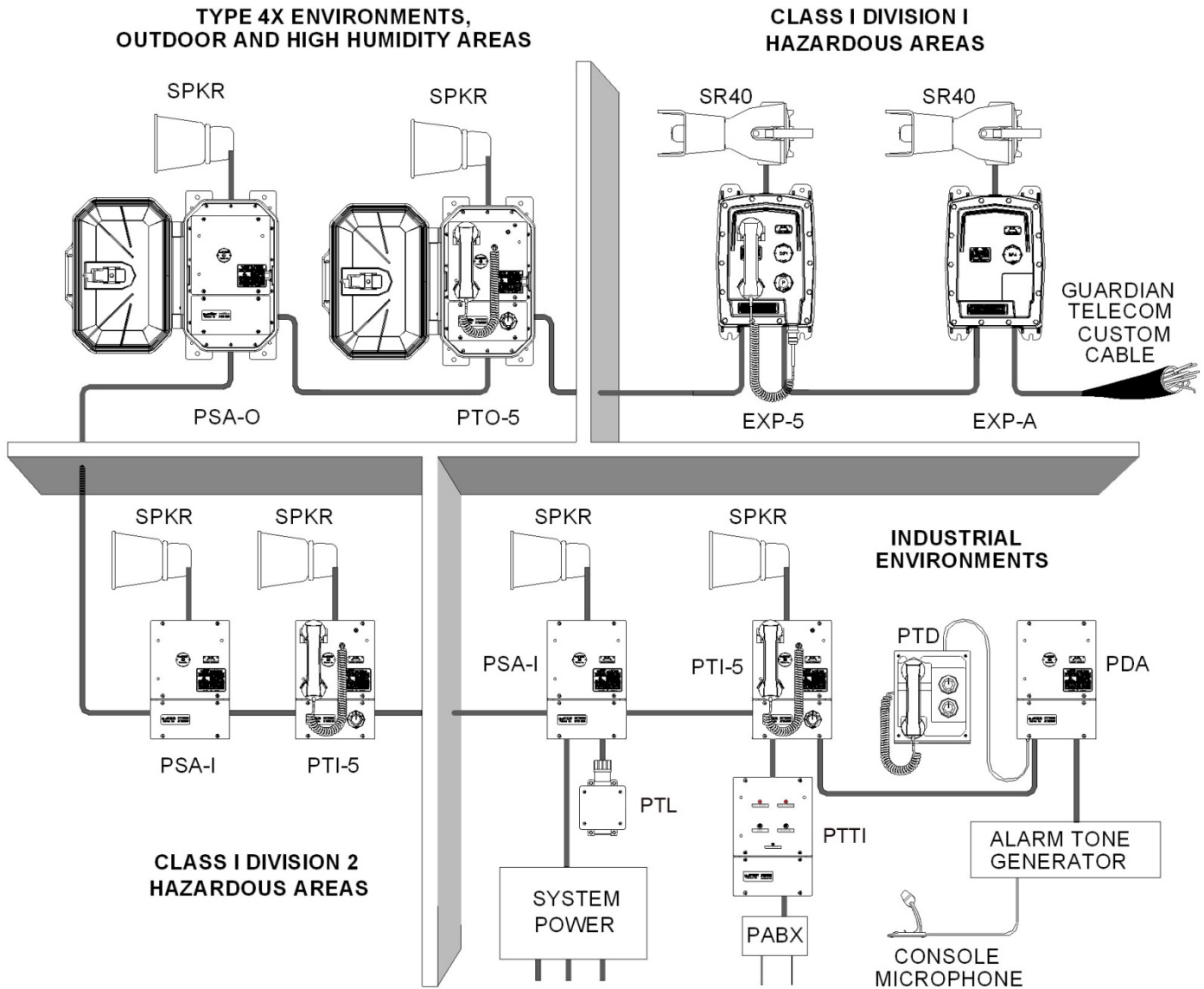
Electrical Connections

Source	Termination	Description
Talk Line #1	L1A & L1B	33 Ohms
Talk Line #2	L2A & L2B	33 Ohms
Talk Line #3	L3A & L3B	33 Ohms
Talk Line #4	L4A & L4B	33 Ohms
Talk Line #5	L5A & L5B	33 Ohms
Page Line	PGA & PGB	33 To 133 Ohms Variable
Ground	Screw Terminal	Ground

Order number P5980

P005618 Rev. C 151002 10/5/2015 10:22 AM

Typical Layout



Adjusting the Line Balance Assembly:

The Line Balance Assembly contains five 33 Ohm ½ Watt resistors that are each connected across a Talk Line pair, except the PTTI designated line if a PTTI is installed. The Assembly also contains a 33 Ohm ½ Watt resistor in series with a 100 Ohm potentiometer connected across the Page Line pair. The only adjustment required is to the 100 Ohm potentiometer.

1. Remove the cover from the Line Balance Assembly.
2. With the Page Line not in use inject a test signal into the Page Line. Adjust the potentiometer in the Line Balance Assembly until the signal on the Page Line reads 0.5Vrms
3. If a tone generator is not available remove the handset from the station adjoining the Line Balance assembly. Hold the handset in a normal speaking attitude and press the Page button.
4. Speak into the handset and adjust the potentiometer to obtain the desired output from the speakers.
5. Replace the cover on the Line Balance Assembly.

Warranty

Guardian Telecom warrants your product to be free of defects in material and workmanship for a period of one year. Guardian Telecom will repair or replace any defective unit that is under warranty free of charge.

This warranty is null and void if any non-authorized modifications have been made to this product, or if it has been subjected to misuse, neglect, or accident. This warranty covers bench repairs only; such repairs must be made at Guardian Telecom or an authorized service depot. Guardian Telecom is not responsible for costs incurred for on-site service calls, freight, or brokerage.

A return authorization must be obtained prior to warranty claims or repairs.

Disclaimer

The products covered by this manual are designed for use in Industrial Environments and/or Hazardous Locations. Due to the range of possible applications for these instruments the manufacturer will not be responsible for damages or losses of any kind suffered as a result of the use of this product, including consequential damages.

Warning

High voltages may be present in this product. Ensure that power is removed before installing, performing maintenance or making repairs.

Service Telephone Number

1-800-363-8010

Guardian Telecom provides a customer service telephone number which is toll-free within North America. If you need assistance when installing or operating this product, please call the toll-free telephone number between regular business hours (8:00AM-5:00PM), Mountain Standard Time. If you are calling outside of regular business hours, please leave a detailed message, and a member of Guardian Telecom's Service Department will return your call as soon as possible. If your product requires service, Guardian personnel will supply you with an RMA (return materials authorization) number over the telephone or through our web site product return page. This number must be included with your return address and the name of the person to contact.

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Feedback

Guardian Telecom continually strives to make reliable, durable, and easy to use products. If you, as an installer or user of our equipment, have any suggestions for improvements to this or any of our products or documents, including this manual, we would appreciate hearing from you.

Guardian Product Return

Guardian products have been quality tested and are in full working order when shipped from the factory, given the rugged nature of these products shipping is not expected to damage a unit. In the unlikely event of a malfunction Guardian follows the three step procedure below.

Step I - On-Site Correction

- The most common source of difficulties with a new product is improper installation in one of two ways: incorrect wiring connections or connection to an incorrect power source.
- Product wiring needs to be properly connected to the on-site wiring. Correct wiring instructions are shown in the user manual included with the product.

Step II - Return Materials Authorization (RMA)

- When a product has been installed following user manual instructions, and the unit fails to operate, the user must contact Guardian Telecom to obtain authorization to return the product. This can be done by completing a RMA form online at www.guardiantelecom.com, or by calling the service telephone number given in this manual.
- After providing information on the product, the owner and the nature of the problem, Guardian will issue a RMA number, to be shown on documentation returned with the product.
- In addition to the RMA number, shipping documents should include name, address and telephone number of the owner along with contact information for the person responsible for the repair and/or the user who identified the malfunction.
- (Where a product is being returned for repair from outside of Canada, customs documentation must show the product's serial number, date of export [date of purchase], and a notation that the equipment is: "Canadian goods returning.")

Step III - Factory Authorized Service

- Once received, each product is carefully inspected and tested. If the product is under warranty, repairs are completed and the product returned to the owner, generally within five working days of receipt by the factory.
- A product that has been subjected to misuse, neglect or accident or is beyond the warranty period will be evaluated. The service department will provide the owner's representative with a repair cost estimate. Once approved, repairs are completed and the product returned, generally within five working days.



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