![JERON electronic systems inc.]

Cat. 4862 PBX Telephone Interface

Supplement to Pro-Alert™ 480 Installation & Service Manual

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General

The Jeron Cat. 4862 PBX Telephone Interface connects a Jeron Pro-Alert™ 480 Multiplexed Area Of Rescue Assistance Intercom System to a PBX Telephone System. The 4862 allows calls from remote stations to be forwarded to outside telephones when master station is temporarily unstaffed. Cat. 4862 Interface is used in conjunction with the 4875 Master.

Figure 1: 4862 PBX Telephone Interface

Operation

Placing Calls

Remote Station Auto-Dials to Outside Phone

Direct Auto-Dial

Remote stations may Auto-Dial a single preprogrammed outside DTMF phone number when a call button is pressed. Audio-connection will time-out when the setting for the Call Abandonment timer is exceeded.

"NO ANSWER CALL FORWARD" to Cat. 4862 Interface

Calls from remote stations to a temporarily unstaffed Master station may be "Call Forwarded" to an outside phone via Auto-Dial.

A remote station places a call in a system with Call Forward No Answer enabled in programming. When the call remains unanswered at the Master station for a preprogrammed amount of time, the Cat. 4862 will Auto-Dial the outside phone number.

When a call is answered, two-way voice communication is established.

Disconnecting Calls

To disconnect a call, hang up phone. Audio connection terminates but call remains on "Hold" at the Master Station display. All calls must be canceled at the 4875 Master.

Sequence of Operation

Direct Auto-Dial

If a 4862 is programmed to auto-dial calls to an outside phone, the following will occur in an idle system (no other calls were placed):

- The remote station will dial a preprogrammed outside phone number when a call button is pressed.
- The red LED on the calling station will illuminate steadily.
- "Holding" will appear on the master station display.
- If call is answered, two-way voice communication is established and can last for the duration of the preprogrammed Call Abandonment Timer interval after which audio is terminated. Refer to "Programming" on page 7. Call will appear as "Holding" at the master station display until master cancels the call.
- If the outside phone rings and call is not answered within the preprogrammed Call Abandonment Time interval, call abandonment will occur. The green LED at the calling station will flash until the call is canceled at the master station. When call abandonment occurs, master station can answer the call.
- As additional calls are placed on the system, calls are queued at the 4862 in the order in which they were received. The 4862 will dial the number of the outside phone in the order the calls from the remote stations were placed.
- If a call was answered by the outside phone or by the master and no voice communication takes place within a 2 minute interval, call is dropped.

"NO ANSWER CALL FORWARD" to Cat. 4862 Interface

If the system was programmed to "No Answer Call Forward", after a preprogrammed interval (refer to "Programming" on page 7) in which the master annunciates, the following will occur:

- The unanswered call to the master station will be forwarded to the Cat. 4862 PBX Telephone Interface.
- The 4862 will dial the outside phone.
- Refer to bullet points in the "Direct Auto Dial" section for further details.

In a non-idle system in which calls have already been placed but not canceled, the new call will be queued on the PBX interface until the other calls are answered.

Equipment

The 4862 has diagnostic indicators to continuously verify proper operation and a disconnect switch for manual override of the PBX loop connection.

The telephone interface connects to a dedicated extension port of a PBX/key, or a phone system that supports analog terminals. A connection is made to any unused master port on the Pro-Alert™ 480 System. The unit is housed in a sturdy aluminum surface mount enclosure with a medium grey finish.

Specifications

Controls & Indicators

Switch

- PBX Disconnect - Momentary Contact Push Button

LED Indicators - red

- PBX Connect
- 4850 VOX
- Configuration OK

Field Connections

- J4: RJ-11 Jack for connection to analog port on PBX
- P2: D-SUB-15, 10 foot plug-ended cable (provided)

Operating Voltage

- 28V DC @ 300 mA

Size

- 1.5 x 5.6 x 6.5 in. H x W x D
- (3.8 x 14.3 x 16.5 cm)

Install the 4862 Interface

Connect the 4862 to the 4850/51 Main Control and set the port switch

1. Use the factory furnished cable with DB-15 connectors.
2. Connect P2 on the 4862 to port J203.
3. Verify that corresponding sub-ports are not used.
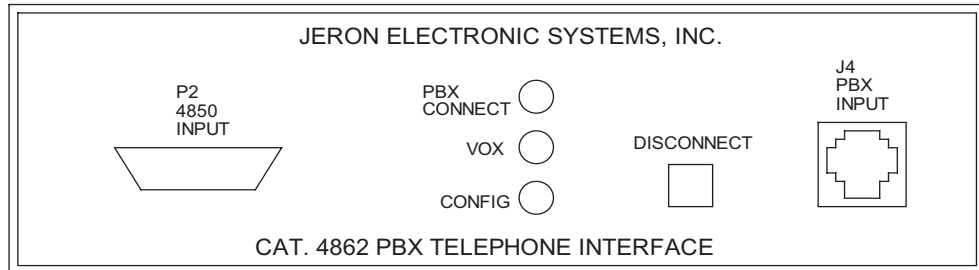4. Set the port switch to type '65' (see Figure 3)

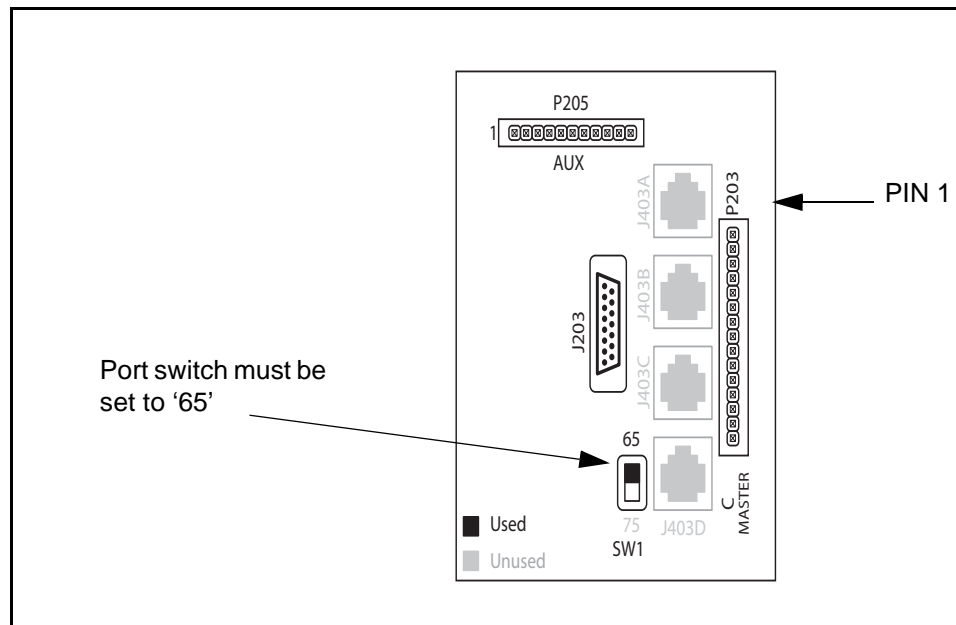*Figure 2: 4862 PBX Telephone Interface Front Panel*

Figure 3: Connection to 4850/51 Main Control

Connect the 4862 to the PBX

Connect J4 on 4862 to a dedicated analog loopstart port on the PBX.

Additional Information

Connection may require the use of a 6869 Wall Jack and IDC connectorized cable. The distance between 4862 and the 4850/51 Main Control should not exceed 1000 feet. If three or more main controls are networked, do not connect the 4862 to the 4850 network control hub.

Power should be disconnected prior to servicing.

The Cat. 4862 PBX Telephone Interface connects to a dedicated extension port of a PBX/Key Telephone Unit or wireless phone system that supports analog telephone sets.

The Cat. 4862 is used to provide an isolated interface between a Pro-Alert 480 Intercom System and a PABX or KTU.

The isolated connection to the PABX equipment is used to provide ancillary or supplemental functions, which are not critical to basic intercom operation.

The intended field wiring connection between the Cat. 4862 Telephone Interface and the PBX are to be made on-premises with both the listed PBX and the Cat. 4862 Interface located within the same building. Wiring connections outside the building where the PBX is installed is not specified or intended.

The PBX that connects to the Cat. 4862 Telephone Interface must provide electrical isolation from exposed plant wiring.

Test the station

Diagnostic Indicators

The Cat. 4862 Telephone Interface has three diagnostic indicators (see Figure 2 on page 5):

Connect LED
  • Flashes during ring cycle from PBX
  • On steady when 4862 seizes the line

VOX LED
  • On steady during audio transmit to main control

Config
  • Indicates that the unit has a configuration

Programming

1. Using 4890, assign an architectural address for 4862 in the Master Setup.
2. In the Global System Data tab, enable the Call Forward No Answer by checking the box.
3. In the Call Forward No Answer Interval field, enter the number of minutes between 1 and 9 after which the call to the Master will be forwarded to the outside telephone. If you select 0, the call will be forwarded immediately.
4. Enter the number of the outside phone in the Number to Dial After Call Forward No Answer Time Interval field. Phone number may be 16 characters maximum; numbers 0 -9; P=500 Ms pause; F=hook flash.
5. Enter the number of minutes between 1 and 9 after which the call will terminate in the Call Abandonment Time Interval field. 0=disables Call Abandonment, i.e., audio connection will not automatically terminate if two-way conversation continues. If no voice communication exists within a 2 minute interval, call will be dropped.
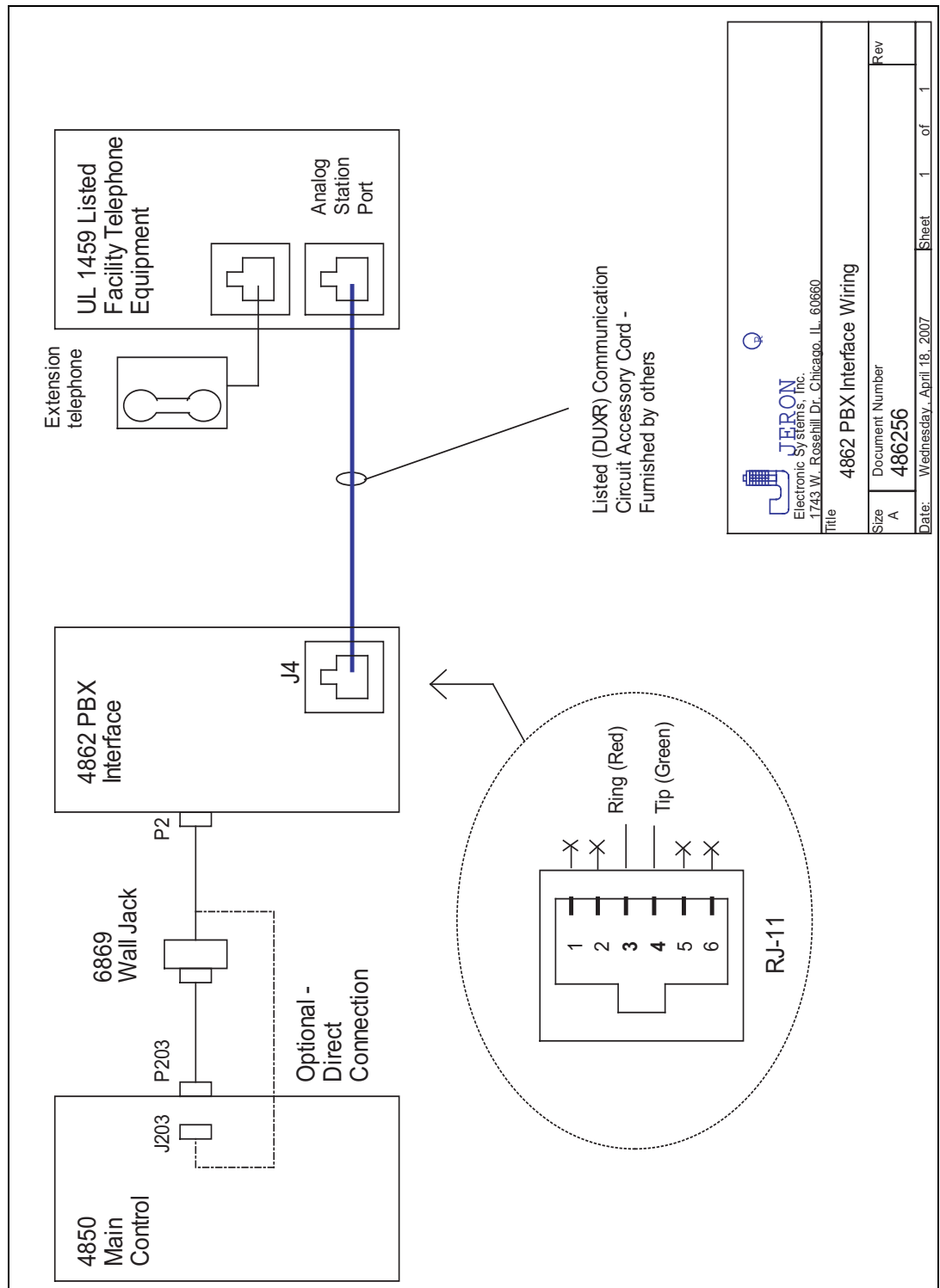
Detailed Wiring

Figure 4: PBX Wiring Details