



## PTT-24 Push-To-Talk Lockout Device



Front View



Rear View

### FEATURES

- Use to de-key radios on Busy/Idle T1 trunks
- Industrial temperature rated -40 to +70 C
- 50 Telco amphenol in and out connectors
- Push button switches to select control port
- Toggle switch to select 12 or 24 E leads
- Switch to test lockout function
- The selected control port, when asserted, de-asserts the other 11 or 23 E leads
- Audible alarm with audio shutoff button
- Alarm input to force lockout function
- Supports Tie Line Types I, II IV and V
- 1U high, 19" rackmount
- -48 VDC dual power inputs, diode protected from each other

### DESCRIPTION

The PTT-24 is a Push-to-Talk lockout device. It is used with multiple E&M circuits linked to radios. The PTT-24 solves the problem of radio transmitters being locked into a Transmit ON state when a T1 circuit fails. Many T1 trunk lines will go into a busy condition when the T1 trunk fails. This causes the E&M leads to lock in an ON state, which causes radio transmitters to lock in the ON state.

12 or 24 E&M ports are wired through the PTT Lockout unit. A front panel toggle switch is used to select 12 or 24 port operation. A 2 position push button switch is used

to select the control port. The Power LED flashes if an invalid control port number is selected.

Based on the selected control port (via the front panel) the PTT Lockout device will detect a closure to ground on that port and de-assert all the other ports. E&M Type III is not supported.

In the PTT-24 12 port mode, selecting control channel 1 through 12 will select one of the even numbered leads 26 though 48 as the control port. The other 11 even numbered leads will be de-asserted if the control port is asserted. All other leads are passed straight through.

In the PTT-24 24 port mode, selecting control channel 1 through 24 will select one of the leads 26 though 48 as the control port. The other 23 leads will be de-asserted if the control port is asserted. All other leads are passed straight through.

If the PTT-24 were to lose power, the E-leads will be in a pass through mode as though the PTT-24 is only a "lump in the cable".

Lockout can be triggered by the E&M control port being activated or the alarm input. For both the control port and the alarm input, there is a delay of 20 milliseconds before the lockout occurs. The de-activation delay is 5 seconds. The de-activation delay eliminates lockout "chattering" on/off/on/off, etc.

Leads 1 though 25 and 50 of the 50 pin amphenol Telco connector are passed straight through.

# PTT-2 – Push-To-Talk Lockout Device

## SPECIFICATIONS

### General

**Front Panel** (these are approximate placements, subject to relocation):

- Toggle switch to select 12 or 24 E&M ports
- Push button switch to select port 1 to 24 for PTT Lockout control
- Test switch, momentary, to test lockout function
- Front panel switch to kill an audio alarm that will sound when/if the control port activates
- Green Power LED (flashes if an invalid control port number is selected, i.e. 00, 25, etc.)
- Red "ALARM" LED to indicate the PTT Lockout switch is activated
- Yellow "ACO" LED to indicate the ALARM CUT OFF is on

### Rear Panel:

- 2 power inputs for -48 VDC power, diode protected between the 2 power inputs to avoid power feed back
- Alarm Input (dry contact closure) to externally activate the PTT Lockout function and/or test the unit
- Alarm output dry contact
- Female 50 pin telco connector from the channel bank, screw connection and cable tie type
- Male 50 pin telco from the PTT lockout to Transmitter side of the circuit, screw connection and cable tie type

### Physical/Electrical

- Standalone or rack mounting
- Power requirements: -48 VDC
- 19" W x 10" D x 1 3/4" H
- 3 pounds

### Environmental

- Operational Temperature: -40 to +70 C
- Storage Temperature: -50 to +75 C
- Humidity: <95% Non-condensing

### Pinout of the 50-Pin Telco Connectors

| Pin(s)  | 12 Channels       | 24 Channels       |
|---------|-------------------|-------------------|
| 1       | No Connection     | No Connection     |
| 2 to 25 | Pass Thru         | Pass Thru         |
| 26      | <b>Controlled</b> | <b>Controlled</b> |
| 27      | Pass Thru         | <b>Controlled</b> |
| 28      | <b>Controlled</b> | <b>Controlled</b> |
| 29      | Pass Thru         | <b>Controlled</b> |
| 30      | <b>Controlled</b> | <b>Controlled</b> |
| 31      | Pass Thru         | <b>Controlled</b> |
| 32      | <b>Controlled</b> | <b>Controlled</b> |
| 33      | Pass Thru         | <b>Controlled</b> |
| 34      | <b>Controlled</b> | <b>Controlled</b> |
| 35      | Pass Thru         | <b>Controlled</b> |
| 36      | <b>Controlled</b> | <b>Controlled</b> |
| 37      | Pass Thru         | <b>Controlled</b> |
| 38      | <b>Controlled</b> | <b>Controlled</b> |
| 39      | Pass Thru         | <b>Controlled</b> |
| 40      | <b>Controlled</b> | <b>Controlled</b> |
| 42      | Pass Thru         | <b>Controlled</b> |
| 42      | <b>Controlled</b> | <b>Controlled</b> |
| 43      | Pass Thru         | <b>Controlled</b> |
| 44      | <b>Controlled</b> | <b>Controlled</b> |
| 45      | Pass Thru         | <b>Controlled</b> |
| 46      | <b>Controlled</b> | <b>Controlled</b> |
| 47      | Pass Thru         | <b>Controlled</b> |
| 48      | <b>Controlled</b> | <b>Controlled</b> |
| 49      | Pass Thru         | <b>Controlled</b> |
| 50      | No Connection     | No Connection     |



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