



Verifier® 2-way Voice System

Description

The Verifier™ Plus system is an accessory device for use with DMP 1512, 1812, 1912, and 1912XR Command Processor panels that allows central station operators to listen-in or talk to persons at the site of an alarm. The Verifier seizes the customer's phone line after the panel has completed its alarm transmission and allows an operator to initiate a 2-way session from a touchtone phone.

Installing the Verifier System

The VPL-12 Verifier system consists of only two components, a main printed circuit board (Model 1225) and a speaker/microphone unit. The main PCB contains all of the system's circuitry, harness connectors, phone jacks, and jumper pins. You'll typically mount the PCB inside the DMP panel's enclosure and wire it directly to the auxiliary power and bell output.

The speaker/microphone unit mounts in a central location inside the protected premises where interior sounds can best be heard by the central station.

Connecting the Phone Jacks

The Verifier system operates by maintaining control of the premises phone line after the panel has communicated its alarm information to the central station receiver. To work properly, you must bring the premises incoming phone line through the Verifier system first and then to the panel. See Figure 1.

Wiring Optional Microphones

You can wire up to 2 groups of microphones to the terminal block on the Verifier 1225 board. Group 1 connects to terminals 3 and 4 and Group 2 connects to terminals 5 and 6. No polarity consideration is necessary.

A total of five microphones can be wired in parallel in each group and shielded cable is not required. The microphones can work together or independently from each other.

Microphones can also be wired remotely on existing RJ11 phone jacks within the protected premises using a spare pair of phone wires.

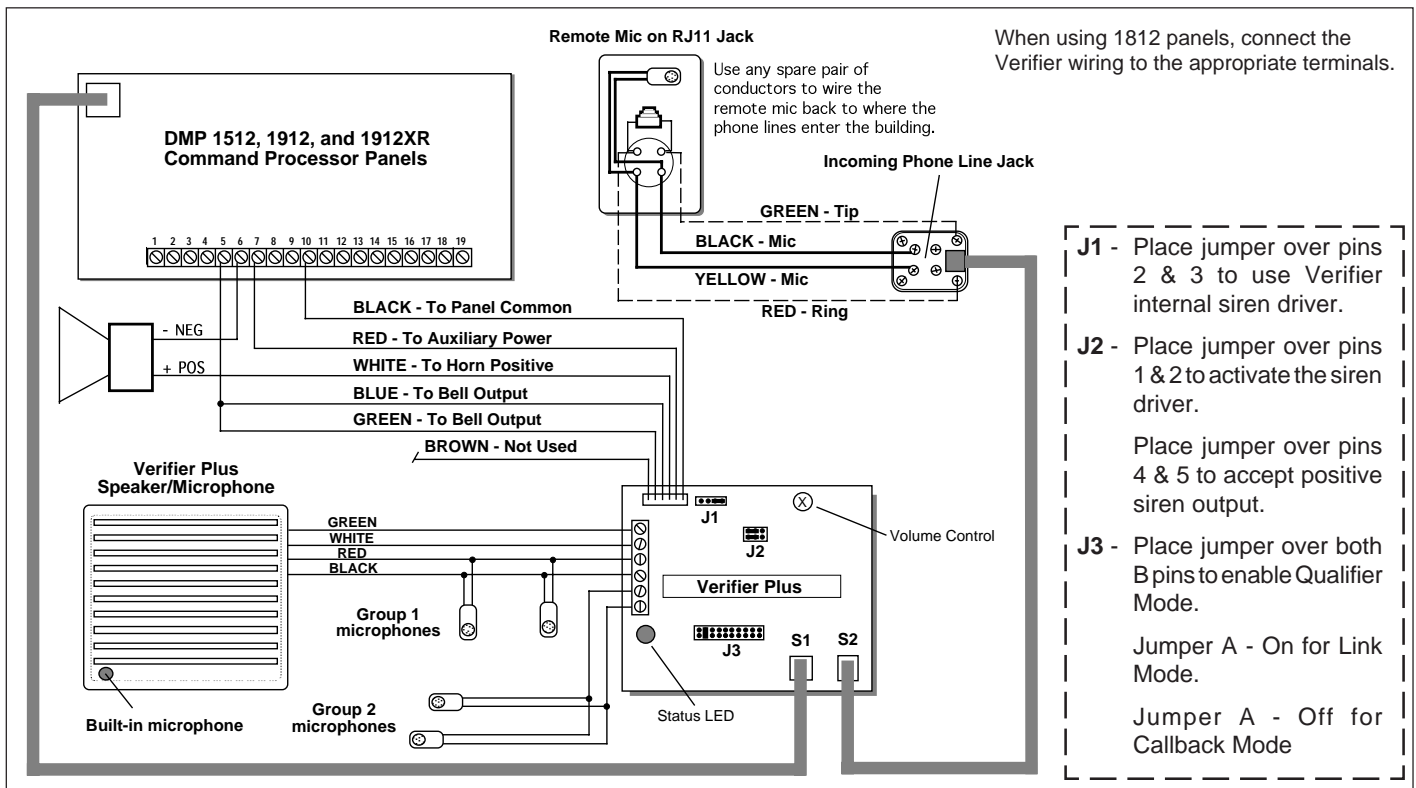


Figure 1: Verifier 1225 PCB connections to the panel and speaker/ microphone

How the System Works

There are two different modes of operation you can configure for the Verifier system:

Link Mode

In this mode the central station can initiate a 2-way session on the same phone call the panel made immediately after it has communicated its alarm information to the receiver.

The Verifier stays on line with the receiver for an additional 90 seconds to allow the central station operator time to initiate a *talk* or *listen-in* session through a touchtone phone on the same line.

If a 2-way session is not initiated within this time, the Verifier drops off line with the receiver and enters the Callback Mode. For the first 45 seconds of Callback, the Verifier maintains its seizure of the premises phone line preventing access by the panel or persons on the premises. This is to ensure that an operator calling the premises to initiate a session does not receive a busy signal.

At the end of the 45 seconds, the Verifier releases the premises phone line and waits for another 2 minutes and 15 seconds. During this time, the Verifier listens in on any calls to the premises for touchtone commands. If a 2-way session is not initiated within this time, the Verifier reverts to the Standby Mode where a listen-in or talk session cannot be initiated except after an alarm condition occurs.

Callback Mode

In this mode, the central station can initiate a 2-way session by calling the premises within 3 minutes of an alarm condition on the panel. Unlike Link Mode, this mode does not stay on line with the receiver after the panel has sent its alarm information.

At the end of the panel's communication of the alarm, the Verifier starts two internal timers and holds the premises phone off-hook to prevent any outgoing calls from the panel or subscribers in the home or business. The first timer runs for 45 seconds and the second timer runs for 3 minutes.

During the first timer, the Verifier seizes the premises phones and waits to receive a phone call from the central station. When the phone call occurs, the Verifier picks up the incoming phone line and listens for an acknowledgment tone from the operator (pressing any touchtone key).

If the central station operator does not call within 45 seconds, the Verifier releases the premises phones allowing outgoing calls from the panel or subscriber to occur.

During the remaining 2 minutes and 15 seconds of the second timer, the Verifier continues to wait for a call from the central station operator with the correct acknowledgment tone. If this call does not occur during this time, the Verifier reverts to its Standby Mode where a listen-in or talk session cannot be initiated except after an alarm condition occurs.

Touchtone Commands

Key	Description
1	Operator can talk but cannot listen.
2	Operator can listen but cannot talk.
3	Pressing 3 toggles the microphone sensitivity between HI and LO. Setting to high increases sounds and background noise.
4	Select microphone groups in sequence. Group 1 - 1 beep from Verifier Group 2 - 2 beeps from Verifier All in use - 1 long beep from Verifier
7	Extends the timer for an additional 3 minutes.
8	Terminates the audio session and puts the Verifier in Callback mode allowing you to call back within 3 minutes. Press twice or hold key for one full second.
9	Terminates audio session. Press twice or hold key for one full second.

Qualifier

For each of the two Verifier configurations, there is a third option enabled by placing the J3 jumper over both B pins. This is called the Qualifier Mode. Basically, this limits the Verifier activation to alarm bell outputs only. Trouble conditions will not activate the Verifier system.

The Qualifier Mode also creates a 15 minute window in which the panel can dial out to the central station receiver, send its information, and then allow either the Link Mode or Callback Mode to occur.

Talk/Listen Session Beeping

During a talk/listen session, the Verifier system emits a beep sound every eight seconds. During the last ten seconds of the session, the beeps increase in frequency to indicate the end of the session. The operator can then press a touchtone key to continue or terminate the session. See Touchtone Commands.

LED Operation

The LED Status Indicator located below the terminal block on the Verifier 1225 board flashes five times in .5 second intervals during the unit's initial power-up and then turn off. If it does not flash, check the power connection to the unit. If it stays lit, reset the power to the Verifier only.

In the Link Mode, once the panel's communication has been acknowledged by the receiver the LED blinks during the first eight seconds and then stays lit through the talk/listen session.

In the Callback Mode, once the panel's communication has been acknowledged by the receiver the LED blinks five times and remains lit for two seconds before turning off. Once the talk/listen session is initiated, the LED comes back on and stays lit through the session.