SINCE 1948

RACO

REMOTE ALARMS AND CONTROLS

RACO Manufacturing and Engineering Co., 1400 62nd St., Emeryville, CA 94608 (510) 658-6713 800-722-6999 FAX (510) 658-3153

INSTALLATION OF THE LOCAL ALARM RELAY/LINE SEIZURE OPTION FOR VERBATIM

The Verbatim provides a 5 volt output that is turned on whenever the unit goes into alarm. This is available at JB4, located at the top center of the main board. Use a molex style 2 pin connector to plug onto the JB4 pins. This output can activate a sensitive (500 ohm +) relay such as a Potter & Brumfield KHU-17D11-6). Connect a 150 ohm,1/4 watt resistor across the relay coil. The Potter & Brumfield relay plugs into a socket (#27E166) which is shown in the accompanying figures. Note that it has four separate circuits in SPDT form. This relay may be used for local alarm, line seizure, or both.

LOCAL ALARM CONFIGURATION:
- Wire the relay coil as described in the introduction.
- Wire the local alarm to one of the four circuits of the relay. In the illustration, the numbers refer to the four separate circuits, and C refers to the coil terminals.
- Note that the Verbatim does not provide the power for the alarm, it functions only as a switch.
- The program code for Local Alarm Relay configuration is 96000, which is the factory default.

LINE SEIZURE CONFIGURATION:
- Line Seizure is a feature that ensures that the dialer will seize the phone line when it goes into alarm, cutting off any phones/ FAX/ or answering machines that may be on line at the time (these are called the downstream phones, as they are "downstream" from the Verbatim). These phones will remain cut off until the alarm is acknowledged.
- The phone jack must be an RJ-31X, which is available from the phone company or a phone supply outlet.
- In operation, the Verbatim plugs into the RJ-31X jack and makes contact with the middle four pins, which are the standard red, green, yellow and black wires. When the unit goes into alarm, it breaks the downstream connections, thereby seizing the line. It waits two seconds to allow a dial tone to come up, then dials out.

NOTE:

You may combine the Local Alarm Relay with the Line Seizure feature simply by using one of the spare circuits (3 or 4) for the local alarm.
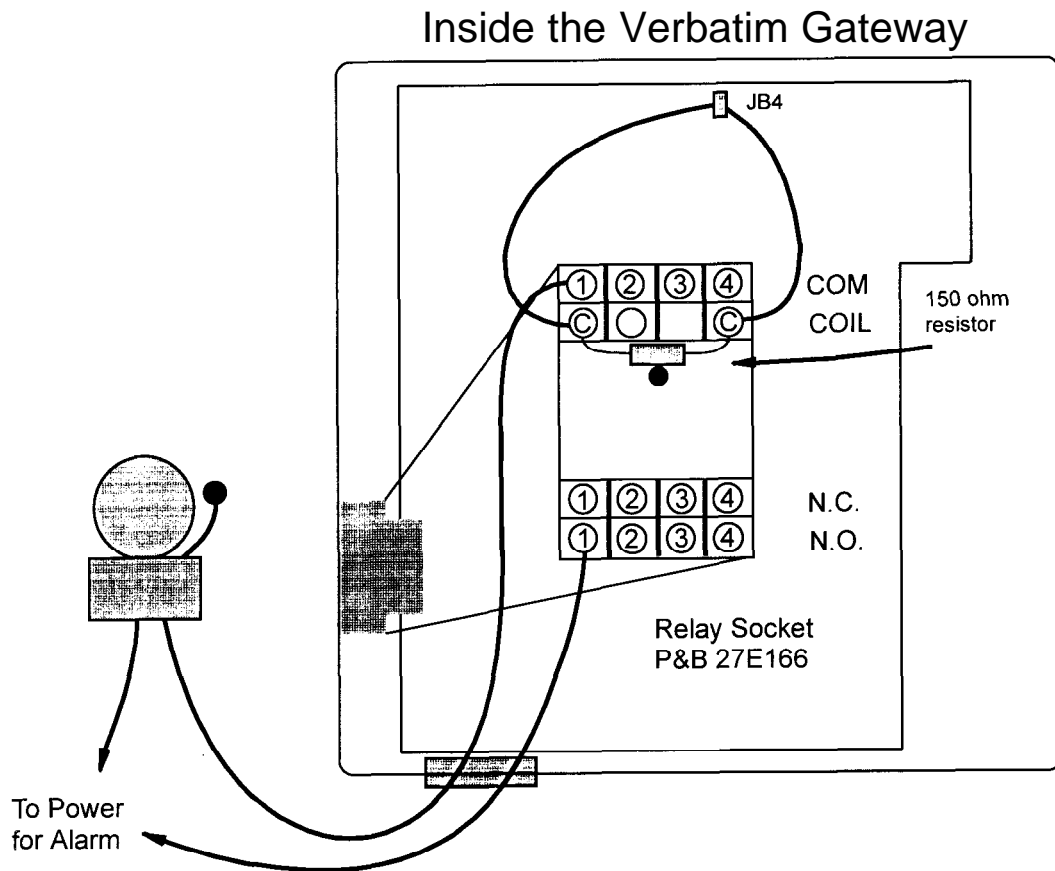

LINE SEIZURE INSTALLATION:

- Wire the relay coil as described in the introduction.
- Wire the four terminals of the telephone input terminal strip to the relay as follows (please refer to accompanying figures):
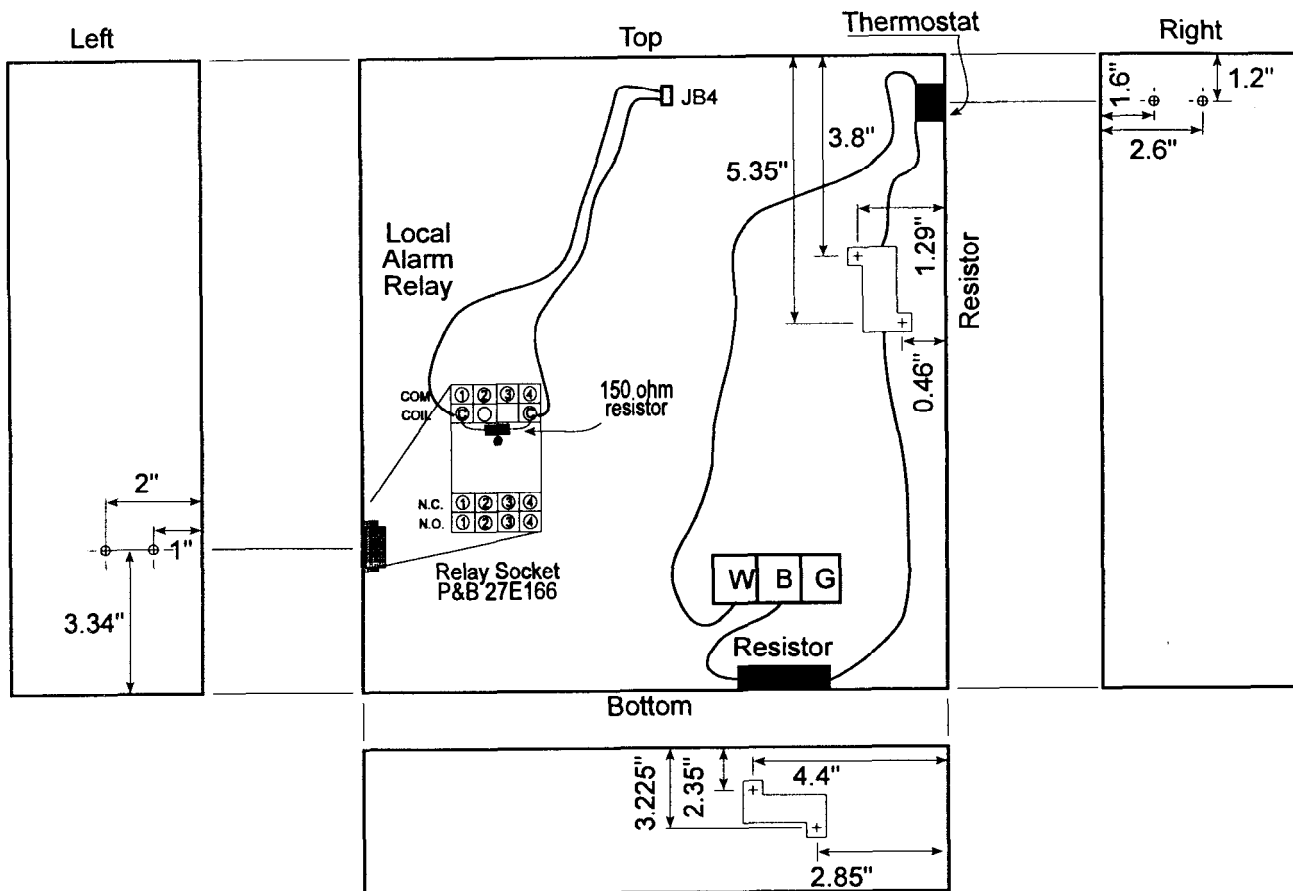
Terminal Strip	Relay
R	COM circuit #2
G	COM circuit #1
Y	N.C. circuit #1
B	N.C. circuit #2

- Wire the special RJ-31X line seizure jack as follows (refer to the accompanying figures).
- Connect a jumper wire from terminals 1 to 3 and a second jumper wire from terminals 6 to 8. Connect the incoming telephone line red wire to terminal 4 and the green wire to terminal 5. Connect the downstream extension phones to terminals 1 and 8.
- Plug the Verbatim into the RJ-31X socket.
- Program the Verbatim with code 96001 [ENTER]. This is the code for Line Seizure configuration of the Local Alarm Relay.
- If you have questions, call Raco Customer Support at 800-449-4539. The Customer Support Department will be available from 8:00am to 4:30pm PST, Monday through Friday (excluding holidays).
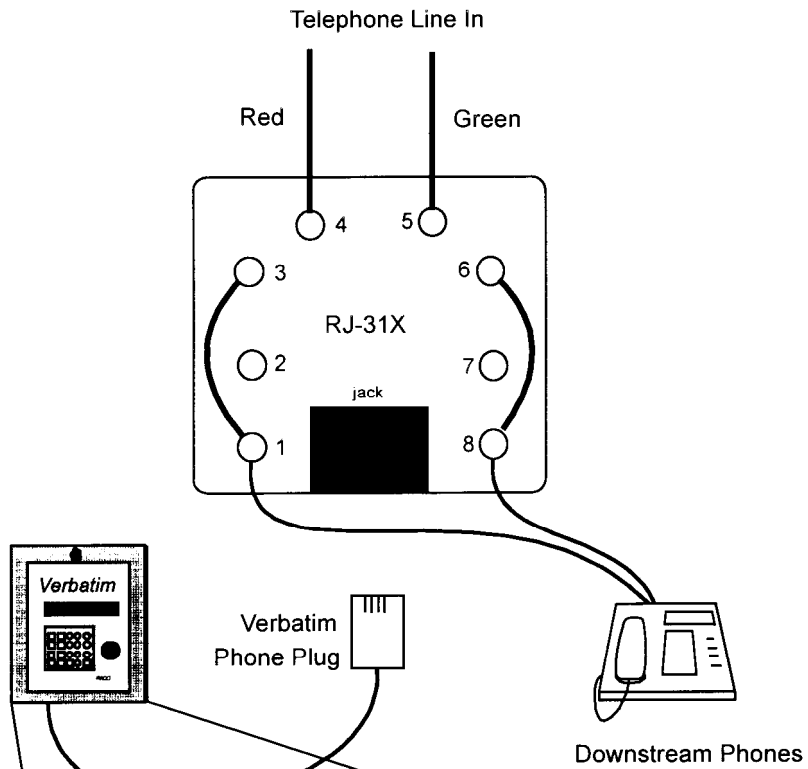
Typical Wiring Diagram for Local Alarm Relay

Inside the Verbatim Gateway

JB4

COM
COIL

150 ohm
resistor

N.C.
N.O.

Relay Socket
P&B 27E166

To Power
for Alarm

Mounting and Wiring Diagram for Local Alarm Relay and Heater/Thermostat options on the Verbatim

Left

Top

Thermostat

Right

JB4

Local
Alarm
Relay

5.35"

3.8"

1.6"

1.2"

2.6"

COM
COIL

150 ohm
resistor

Resistor

1.29"

0.46"

2"

1"

N.C.
N.O.

Relay Socket
P&B 27E166

W B G

3.34"

Resistor

Bottom

3.225"

2.35"

4.4"

2.85"

Wiring the RJ-31X Line Seizure Jack

Telephone Line In

Red   Green

4   5

3   6

RJ-31X

2   7

jack

1   8

Verbatim

Verbatim
Phone Plug

Downstream Phones

Inside the Verbatim

JB4

① ② ③ ④   COM

Ⓒ   Ⓒ   COIL

150 ohm
resistor

① ② ③ ④   N.C.

① ② ③ ④   N.O.

Relay Socket
P&B 27E166

R   G   Y   B