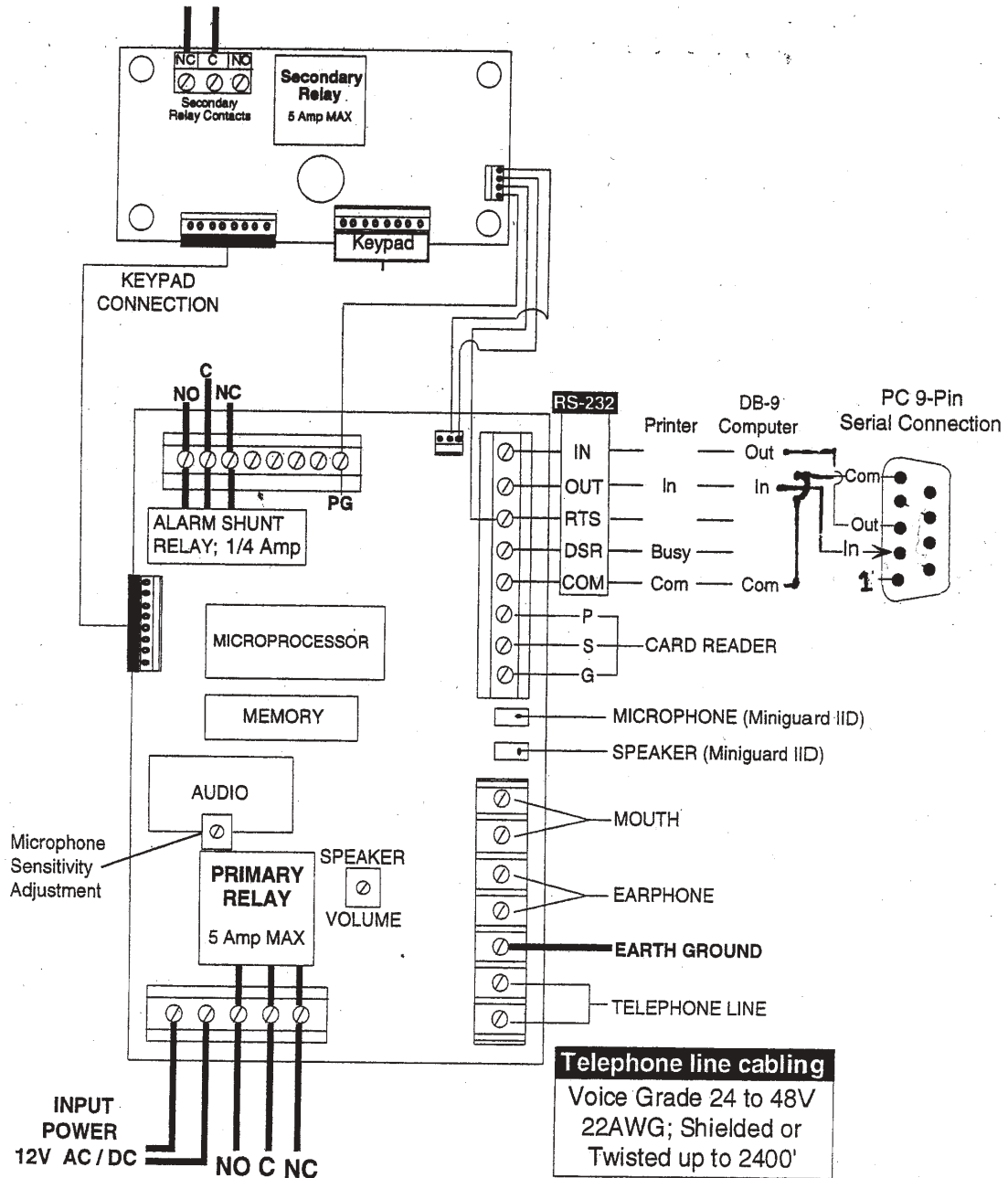


WIRING DIAGRAM



Telephone line cabling
 Voice Grade 24 to 48V
 22AWG; Shielded or
 Twisted up to 2400'

Input power cabling

0-250'	18 AWG; Shielded
250 to 500'	16 AWG; Shielded
500' +	14 AWG; Shielded

Figure 3

Relay
Main Entrance
Power Cabling -
Shielded or Twisted,
2 Conductor,
18AWG up to 250'
16AWG up to 500'
Card Reader
(Interface Module Req'd)
18 AWG; Shielded,
4 to 6 Conductor
Alarm
Shunt
Relay
2.0"

Figure 1

Page 4

**Miniguard IID
MOUNTING**

Arrangements must be made for the installation of a standard voice-grade telephone line (touch-tone or rotary, telco or Analog Port), as close to the unit mounting location as possible. The telephone company may require the following information.

FCC Registration No.....1Z8898-62546-DI-T
Ringer Equivalence.....0.8B
Connector.....Terminal Block

When selecting a mounting location, Trigon recommends some shelter be provided from direct rain and sunlight. An overhang is usually sufficient. It is critical on units that support an LCD display, that they be mounted so that direct sunlight NOT be allowed to fall on the display itself. Like all LCD displays, heat absorption will temporarily blacken the crystals making the display unreadable. At about 20 degrees fahrenheit, the display will become sluggish. If a heater element is installed, be sure to use a bi-metal thermal switch to prevent over-heating during the summer months.

Pull the wiring through the access hole in the lower portion of the back plate (Fig. 2). Bolt the plate to the surface through the four .312" mounting holes provided. At this time, the wiring should NOT be energized.

Note: If used in extreme weather, a bead of silicon sealant should be run around the outside top two thirds of the unit, after the front case is secured. (Fig. 2b).

.52" 3.62"

+
+
4.04"

11.80"

5.38"

2.80"

++
3.0"

.52"

1.5"

2.02"

1 Hole

.88" Dia.

4 Holes

.312" Dia.

Note: Mount backplate with .88" Dia. wire entry hole toward the bottom.

Figure 2b

Seal top 2/3 of case
to mounting surface.

Side View

WIRING

1. Use the wiring diagram on pg. 5 for wire connection information.
2. Do not energize wires until installation is completed.
3. Do not power any other device from the Trigon's 12 VAC transformer. If a substitute transformer is used, be sure it is rated 12 VAC, 20VA, UL Class 2 listed. The 12 VAC input power wires should be 18AWG, 600V, insulated wire. This should be sufficient for distances up to 200 feet.
4. Ground the unit by attaching a separate 12 AWG ground wire to the ground location on the terminal block. This ground wire should go to a grounding rod or grounded metal conduit.
5. Trigon recommends that an EMI filter (Cornell-Dubilier Model APF 1021 or equivalent) be mounted between the 12 VAC transformer output and the unit. EMI/RFI filters are available from Trigon. Mount the filter as close to the unit as possible. Ground the filter to the same point as unit ground.
6. Shielded cable is recommended for both the power and telephone cabling. Ground the cables shield to the same point as the unit and filter. To avoid ground loops, do not ground the shield at both ends. Use 600V insulated wire for this installation.
7. Isolate the phoneline from 12 VAC power wires. This will prevent 60 Hz hum from occurring on the phoneline. Use 22 AWG wire on Telco line run distances of up to 2400 feet. Consult the factory for distances greater than 2400 feet.
8. Output Relays 1 and 2 are dry contact, Form C type, rated for 5 AMPS @ 30 VDC/ 250VAC.
9. The Shunt relay is a low-power (4 watt) reed relay. It can be used for temporary alarm switch bypass, video camera activation, etc. The Shunt relay activates with the #1 or #2 output relay, and deactivates thirty seconds after relay release.
10. Connect printer wiring to the RS-232 port (Printer OUT to RS-232 IN, Printer BUSY to RS-232 DSR, Printer COM to RS-232 COM).
11. If all wiring and grounding is completed, mount the faceplate onto the backbox.
12. Apply power to the unit.

Figure 2b

Figure 2

Page 5

Miniguard IID

Figure 3

WIRING DIAGRAM

NC C NO

0-250'

500' +

18 AWG; Shielded

16 AWG; Shielded