











Please read these instructions carefully and keep them in a safe place (preferably close to the module) for future reference. These instructions must be followed carefully to ensure proper operation.

## A. GENERAL INFORMATION

The MZA multi zone alarm has been designed specifically for use with TraceTek sensing cables (TT1000, TT1100, TT3000, TT5000, TT5001 and TT7000). The MZA can monitor per zone up to 100 m (328 ft) of sensing cable, or 10 water detection probes. Optical probes, float switches and level indicators can also be incorporated into the system. The MZA is designed for use in ordinary areas with temperatures of 0°C to 50°C (32°F to 122°F).

## INSTALLATION ITEMS (NOT SUPPLIED)

- Wall fasteners for surface mounting (four screws)
- Rubber or elastomeric washers to seal at mounting points
- Semi-flush recess flange (optional)

## **TOOLS REQUIRED**

- Drill or hole punch for electrical conduit entries
- Phillips (cross-head) screwdriver
- Small flat-head screwdriver

### **STORAGE**

Keep the module in a dry place prior to installation to avoid possible damage to internal components.

## **ADDITIONAL ITEMS**

AT-BU

Battery Unit c/w battery for 72 hrs operation **AT-BAT** Replacement 12Vdc, 7Ah Battery

## **B. PRODUCT INFORMATION**

## MZA

115Vac +15%, -20%; 50/60 Hz 230Vac ±10%; 50/60 Hz 12Vdc ±20%

## **POWER CONSUMPTION**

12 watt maximum

## RELAYS

Number: One LEAK relay per zone (max 8), One common LEAK and one summary FAULT. Type: SPDT Rating: 3 A at 250Vac/24 Vdc

## TEMPERATURE

**Storage:** -18°C to 60°C (0°F to 140°F) **Operating:** 0°C to 50°C (32°F to 122°F)

### **ENCLOSURE**

NEMA 12; IP54

## APPROVALS (€

The MZA is approved for use in ordinary areas. The module must be located in an Ordinary Area, but may monitor intrinsically safe TraceTek sensing cables located in Hazardous Locations:

- TraceTek sensing cable in Class I, Division 2, Groups A, B, C, D =Hazardous Locations.
- If protected by agency-approved zener barrier TraceTek sensing cable in Class I, Division 1, Groups A, B, C, D Hazardous Locations (Zone 0 or Zone 1 in Europe). Contact your TraceTek distributor/agent to select proper zener barrier.

## MAXIMUM CIRCUIT LENGTH

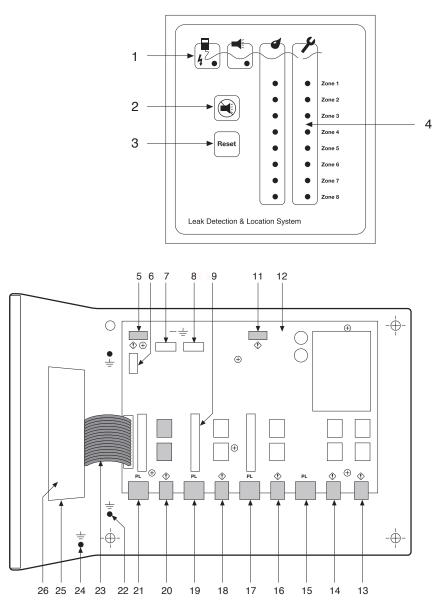
100m (328ft) TraceTek sensing cable or 10 water or optical oil probes per zone. Leader and jumper cable lengths are not included in this limitation.

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LEAK DETECTION SOLUTIONS



AT-MZA Multi Zone Alarm



- 1. LEDs with icons
- 2. Mute Button
- 3. Reset Button
- 4. Zone LEDs
- 5. Battery Connection
- 6. Spare Fuse
- 7. Fuse (1600mA, 250 V)
- 8. Fuse (1600mA, 250 V)
- 9. Zone exp card connection
- 10. (Not Used)
- 11. Power cable terminal block
- 12. Motherboard
- 13. Summary leak & fault relay plug & socket

- 14. Z1/2 Leak relay cable plug and socket
- 15. Z1/2 Sensing cable plug and socket
- 16. Z3/4 Leak relay cable plug and socket
- 17. Z3/4 Sensing cable plug and socket
- 18. Z5/6 Leak relay cable plug and socket
- 19. Z5/6 Sensing cable plug and socket
- 20. Z7/8 Leak relay cable plug and socket
- 21. Z7/8 Sensing cable plug and socket
- 22. Ground/earth stud
- 23. Ribbon cable
- 24. Ground/earth stud
- 25. Buzzer mute link
- 26. User Interface board

**Note:** To avoid damage to the MZA and the MZA-EXP electronics, store them in their cardboard boxes until construction is complete.

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## <mark>AT-MZA</mark> Multi Zone Alarm

## **C. SELECT A MOUNTING POSITION**

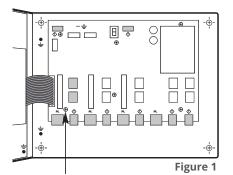
Choose a location indoors where the module will be protected from the elements and temperature extremes

**WARNING:** Ignition hazard. Do not mount the MZA unit in a hazardous location. Sensing cable connected to the MZA may (subject to approvals restrictions) be located in hazardous locations, but the module itself must

## PREPARE THE MODULE FOR MOUNTING

**Important:** The MZA is an electronic unit. During installation, take the following precautions to avoid damage to its electronic components:

- Handle with care, avoid mechanical damage.
- Keep the electronics dry.
- If handling circuit boards, hold them by their edges to avoid physical contact with electronic components.
- Avoid exposure to static electricity.
- Avoid contamination with metal filings, liquids, or other foreign matter.
- Remove the module from its packaging.
- Open the enclosure door using a flat-blade screwdriver or coin.
- Anti static precautions should be taken before touching the boards inside.
- Carefully disconnect the ribbon cable from the motherboard.
- Unscrew the four Phillips (cross-head) screws holding the motherboard to the enclosure (see Fig 1). Remove the motherboard, and put it out of harm's way.



Remove all six screws attaching motherboard

• Taking care to protect the User Interface board on the enclosure door, drill/punch entries as required (see Fig 2).

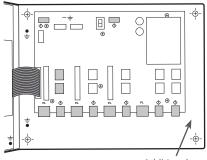


Figure 2

Additional area avalable for cable entries (no knockouts)

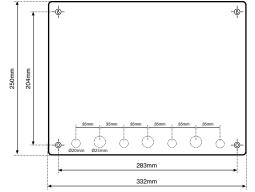
- Note: The AquiTronTM/ TraceTek sensing circuit is power limited, so the TraceTek leader or jumper cable and the power supply cable must not run in the same conduit.
- Fit conduit bushings/adapters.
- Remove all traces of metal filings and dust from inside the module enclosure.

## MOUNT THE MODULE

The module mounts with four screws with mounting centers as noted in Fig 3. To seal around the mounting screw (necessary to maintain the IP54 rating), use a rubber or elastomeric washer.

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## **REASSEMBLE THE MODULE**

Note: Before replacing the motherboard, ensure that the interior of the enclosure is clean.

- Replace the motherboard and secure it in place with the Phillips (cross-head) screws.
- Reconnect the ribbon cable (taking care not to bend any pins in the connection).
- Close and secure the door of the enclosure.

#### Figure 3

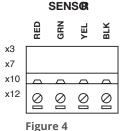
Cable entry knock outs are provided as follows Back plate 4 x 20mm and 3 x 3/4" Base of enclosure 6 x 20mm and 5 x 3/4"

## D. PREPARE SENSING CABLE / SENSING PROBE / DEVICE

Ensure that the sensing cable (sensing device) has been installed in accordance with the instructions provided.

## **MAKE CONNECTIONS**

- · Confirm that the power to the MZA unit has been turned off.
- Open the enclosure door.
- Feed the end of the TraceTek modular leader cable (or bulk jumper cable) through the knockout/adapter/bushing if fitted.
- · Connect the four colour-coded wires to the Sensor Interface plug, X3, X7, X10 and X12 (see Fig 4).



- Select a spare connector between zones 1 to 8.
- Zones 1-2 do not require the insertion of a zone expansion card, MZA-EXP.
- Three cards can be added to the base unit. giving a total of 8 individual zones. Provided

the relevant zone expansion card has been inserted, you can select any sequence for connecting the sensing cable or sensing devise.

Important: Observe the colour coding. If wires are not connected to the correct terminals, the leak detection system cannot operate properly.

Insert the sensing cable (SI) plug into the SI socket (item 15, 17, 19, 21 on the product illustration on the first page).

## **ISOLATE SPARE SENSING ZONES**

Each spare sensing zone circuit or the second zone in any of the two zone blocks, where an expansion card is fitted, that is not to be used must be terminated with loops of cable between red-green and yellow-black. (See figure 5). This will prevent the system identifying this zone as having a cable break.

However, should there be a requirement for all three-expansion cards to be installed, but not used, then these must be terminated in a similar fashion.

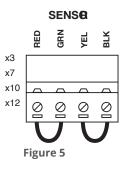
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LEAK DETECTION SOLUTIONS



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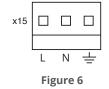


**Note:** See figure 8 (at the back of this document) for a complete figure layout.

## **E. CONNECTING THE POWER CABLE AND RELAYS**

### **CONNECTING THE POWER WIRING**

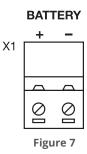
- Open door of MZA enclosure.
- Pass the power cable through the knockout/adapter/bushing if fitted.
- Note: Proper grounding/earthing is important to avoid the possibility of electromagnetic interference.
- Connect the power supply wires to the special three-pin terminal block marked LNE (Live, Neutral, Earth), observing the polarity.



- The electrical supply should be fused at no more than 3 amps via an unswitched fused spur adjacent to the unit.
- **Note:** Do not exceed maximum voltage.

## **BATTERY BACKUP**

 The unit is equipped with a 12Vdc battery back-up power circuit. If this option is required connect the + and - (positive and negative) battery leads (leads not supplied) (fig 7).



- A separate battery unit is available AT-BU which will house a 12Vdc 7Ah battery - AT-BAT.
- Batteries should be tested, maintained and replaced in accordance with the battery manufacturers instructions and recommendations.

### COCONNECT THE LEAK AND FAULT (CABLE BREAK) RELAYS

## The MZA has:

One LEAK relay per zone One common LEAK relay One summary FAULT relay

## **RELAY IDENTIFICATION**

#### **LEAK relays:**

Zones1&2,X13-Z1bottom,Z2top Zones3&4,X11-Z3bottom,Z4top Zones5&6,X8-Z5bottom,Z6top Zone7&8,X5 -Z7bottom,Z8top

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## AT-MZA Multi Zone Alarm

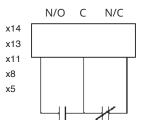
### **COMMON LEAK RELAY**

X14 Bottom connection

## **FAULT RELAY:**

Common to all zones X14 Top connection All relays are SPDT and independent of the next. The MZA's FAULT relay will also indicate power failure as the relay contacts will de-energize to signal an alarm condition. Therefore, loss of power as well as a cable break would trip the relay and any equipment connected. **Note:** The relay plugs can accept wires 12 to 24 AWG. Cable should have a temperature rating of 65°C.

**Note:** Maximum load for relays is 3 amps, 250Vac/24Vdc.



## F. CONNECTING THE ZONE EXPANSION CARDS

**Important:** The MZA-EXP is an electronic unit. During installation, take the following precautions to avoid damage to its electronic components:

- The MZA panel should not be powered when installing the MZA-EXP card.
- Anti static precautions should be taken before touching the boards inside.
- Handle with care, avoid mechanical damage.
- Keep the electronics dry.
- If handling circuit boards, hold them by their edges to avoid physical contact with electronic components.
- Avoid exposure to static electricity.
- Avoid contamination with metal filings, liquids, or other foreign matter.
- A maximum of three MZA-EXP cards can be added to a MZA panel.

#### INSTALL ZENER BARRIER, IF APPLICABLE

When sensing cable will be located in Class 1, Division 1 locations, approval agencies require that the sensing cable be protected with a zener barrier between the sensing cable and the MZA module. A zener barrier may also be used to provide lightning

- Each MZA-EXP provides two additional zones of sensing.
- Remove the card from it's static free packaging.
- Insert the first card on vertical connector marked zones 3-4 and the following cards on zones 5-6 and zones 7-8. The card will only fit in one direction.
- Push the card securely to the base connector.
- Once the card has been securely installed the MZA panel can be powered.

protection for the module when the sensing cable may be exposed to electrical discharges. Contact your distributor/agent to select the proper zener barrier. One will be required for each sensing zone.

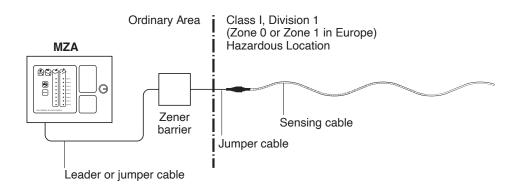
When installing a zener barrier, wire it in accordance with the instructions provided with the kit.

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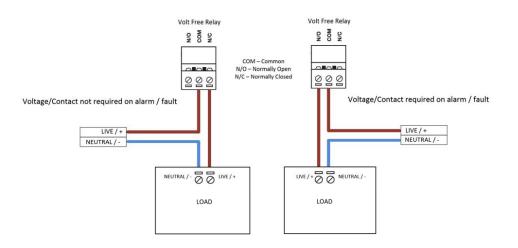






## **VOLT FREE RELAY OPERATION**

All leak detection alarm panels supplied by Aquilar are provided with, at least one, volt free relay. These are also known as volt free contacts or dry contacts. They are used to operate auxiliary equipment such as – valves, sounders, pumps, beacons etc., sending closed or open contact signals to Building Management Systems (BMS) or other logic level controls. As the name suggests, there is no voltage present at the terminals. So, to operate a valve, for example, you need to have a dedicated power supply which is then fed through the relay (typically the live feed) to switch it on or off accordingly. Typical wiring is as follows:



Please ensure that the load does not exceed the ratings of the volt free relay. This is stated in the relevant product's data sheet / installation instructions.

Wiring of volt free relays should be undertaken by a suitably qualified technician and in accordance with the regulations and standards in their industry/country. These notes are only intended as a guide and Aquilar Ltd bears no responsibility for the installation or operation of the unit.

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## **G. TEST PROCEDURE**

- After connections are complete supply power to the unit. If the sensing circuit is complete and free of leaks or other problems, the green Monitoring LED only will illuminate.
- Leak Simulation: For systems using TT1000, TT3000 sensor cable or a detection probe, use a TraceTek Mapping Tool or a small container of water to simulate a leak. After the time delay has expired (maximum 15 seconds) look for the following indications: Red LEAK LED on Green POWER LED on LEAK RELAY in ALARM condition (Note: This may cause equipment shut down if devices are connected to the LEAK relay contacts) Remove simulated leak Red LEAK LED goes out

For TT5000 and TT5001 systems, simulate a leak condition by tightly bending and holding the sensor cable.

 Cable Break Simulation: For any sensor system, disconnect any one wire at the sensor cable terminal block or disconnect any connector in the system. Look for the following indications: Yellow CABLE BREAK LED on FAULT RELAY in ALARM condition

Restoring the connection should cause the MZA to return to the normal indications for that zone.

## **H. FINAL CHECK LIST**

- 1. Complete a system inspection in the presence of the owner.
- 2. Ensure a plan showing the location of the sensor is available.
- 3. Check that the following information is clearly visible adjacent to the alarm module:
  - In case of alarm instruction.
  - Location of the system map in case it is not installed adjacent to the alarm module.
  - Name and contact number of the person responsible for operating the system.
  - Supplier's contact name and address.
- 4. Hand over these Installation, Operating and Maintenance Instructions.
- 5. Make the owner aware that it is strongly recommended to perform a systems check at regular intervals, at least every six months.

## COMMISSIONING

Your system should be commissioned by an authorised AquiTron<sup>™</sup> or TraceTek representative. The system map is a crucial part of the system and should be located adjacent to the unit and within the O&M documents.

**Important:** Store hardware and documentation supplied with the MZA in a secure place for later use (commissioning, connecting interfaces, operating).

## I. INVESTIGATING LEAKS AND FAULTS

If the location of a leak is not apparent, it is often useful to subdivide the leak detection circuit, as illustrated below. To accomplish this, it is recommend have a TraceTek Portable Test Box (PTB) and an extra Modular End Termination is used. Contact your local TraceTek representative to obtain these products. Note that the PTB comes with instructions on how to use it.

To segment the system (one individual zone) and isolate problems, find a TraceTek sensing cable or jumper cable connection at a convenient point somewhere at the center of the

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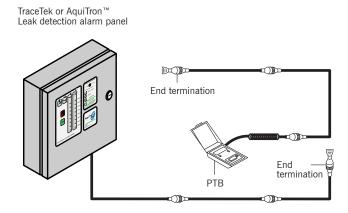
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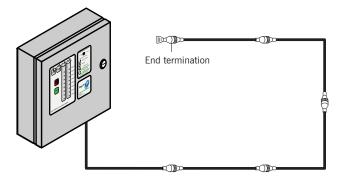
## AT-MZA Multi Zone Alarm

detection circuit. You can then use a PTB to check one portion of the system (to verify circuit integrity, to detect the presence of liquid, and even to determine its location, as the PTB will give you an indication in feet or metres to the point of the leak). If you install an end termination on the other length of cable (going back to the MZA panel), you can use the MZA to check the "front half" of the sensing circuit.

You can further subdivide the circuit, and even test individual lengths of cables, as shown in the third diagram below. Even the most perplexing problems can usually be isolated and resolved using this methodical approach.



TraceTek or AquiTron™ Leak detection alarm panel



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## J. CLEANING THE MODULE

To clean the outside surface, use a damp cloth or sponge. Do not use solvents or abrasive cleaners, and do not open the enclosure while it is wet (it is an electrical device).

## K. STORAGE AND HANDLING OF SENSING CABLE

Despite their rugged construction, TraceTek sensing cables must be handled in a manner appropriate for a sensing device or they may be damaged and require replacement. Therefore, you should follow some basic rules for storing and handling all TraceTek sensing cables:

- Store spare cable in its original container in a clean, dry place until ready for installation.
- Schedule cable and probe/sensor installation after all mechanical, plumbing, and electrical work has been completed.
- Clean the area where the cable is to be installed, and remove any obvious debris or other sources of contamination.
- Do not solder or weld near the cable without providing protection from heat, solder flux, or weld splatter.
- Do not drop tools or floor tiles on the cable; sharp and heavy objects may damage the cable.
- Avoid walking or stepping on the cable. Provide shielding (for example, a half shell of plastic pipe) where additional protection is necessary.
- Do not use tape to secure sensing cable (some tapes and adhesives absorb moisture) or use solvents that could eventually cause an alarm.
- Do not drag sensing cable through contaminants (such as pipe dope, PVC cement, solvents, oil, or dirt).

## L. FUSE REPLACEMENT

The fuse on the power supply board (item 7 on the internal layout drawing) is a 1600-mA, 250-V. Use no other type of fuse or the MZA could be damaged or fail to perform properly. A spare fuse is provided and positioned on the mother board item 4.

# M. NOTE ON CABLE

TraceTek TT1000 and TT3000 use a solid core polymer construction and can usually be easily cleaned with tap water. In extreme cases or when large amounts of cable are contaminated, either cable can be washed in an ordinary dishwasher. Try a water only (no detergent) cycle first and avoid the heated dry cycle. When placing the cable in the dishwasher be sure to tightly connect the male connector on one end to the female connector on the other. Keep water out of the connectors.

TT5000 and TT5001 cannot be cleaned without special equipment. These cables normally require replacement after exposure to fuel or solvent.

## N. PERIODIC MAINTENANCE AND TESTING

**Recommended Interval:** Perform a functional check per the following procedure at 6-month intervals. Repair or replace all damaged wiring and sensor cables. There are no field repair procedures for the MZA panel. If the module fails to perform the functional tests it must be replaced

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## **O. TROUBLE SHOOTING**

#### **Problem:**

Leak Alarm, but no leak is found. **Possible Cause:** Cable is dirty (TT1000, TT3000).

## Action:

Clean cable using water (no solvents, acetone, white spirit or turps). Dry the cable and check MZA front panel. Heavily contaminated cable may require replacement. But if dirt is accumulating, cleaning and/or replacement will eventually be required.

#### Problem:

Leak Alarm, but no leak is found. **Possible Cause:** 

Cable is exposed to occasional water spraying (TT1000, TT3000)

## Action:

It is best to keep the sensor cable at least 1 meter (3 feet) from the outflow of any air conditioner units.

#### Problem:

Leak Alarm, but no leak is found. **Possible Cause:** Cable is in contact with sharp metal edges (TT1000, TT3000)

## Action:

Check the sensor cable for possible points of contact with sharp edges such as the edges of drip trays or the pipe threads on adjustable floor supports, trunking and ducting. Reposition the cable as necessary or insert a small piece of insulating material to prevent the cable from making contact with the metal edge.

### Problem:

Leak Alarm, but no leak is found. **Possible Cause:** 

Cable is pinched (all cables).

#### Action:

Check the sensor cable for possible pinch points. TT5000 and TT5001 can be tripped if tightly bent or compressed by a heavy object. TT1000 and TT3000 can be tripped by heavy pressure from a metallic object. Check the entire cable installation for pinch points and correct the condition.

#### Problem:

CABLE BREAK indication but cable appears to be intact. Possible

Loose connections at terminal block. **Action:** 

#### ACTION

Check all terminal block screws for tightness. To test the module by itself, use two small pieces of wire to form temporary jumpers from red to green and yellow to black at the sensor cable terminal block. This simulates a very short piece of sensor cable and the yellow CABLE BREAK LED should go off. If the MZA cannot pass the jumper wire test it may require replacement.

#### **Problem:**

BMS/PLC or other host system detects a fault when the MZA is operating in NORMAL mode.

#### **Possible Cause:**

Mains power has cycled. Logic controller has powered relays incorrectly.

#### Action:

Press RESET button. This will clear any logic power up anomalies, and the panel will now function correctly.

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## NORMAL MODE INDICATIONS:

LEAK LED (Red)OFFCABLE BREAK LED (Yellow)ONPOWER LED ON (Green)ONALARM/TROUBLE RELAYNORMAL (de-enrgised)

## LEAK MODE INDICATIONS:

LEAK LED (Red)	ON
CABLE BREAK LED (Yellow)	OFF
POWER LED ON (Green)	ON
ALARM/TROUBLE RELAY	ALARM(energised)

## **USER ACTION**

- 1. Locate the spill area, investigate the cause of the spill and take necessary repair actions.
- 2. Clean up in the spill area and clean and dry the cable / probe, if necessary. LEAK LED will turn off when cable / probe is dried.

## CABLE BREAK INDICATIONS:

LEAK LED (Red)	OFF
CABLE BREAK LED (Yellow)	ON
POWER LED ON (Green)	ON
ALARM/TROUBLE RELAY	ALARM(energised)

## **USER ACTION**

- 1. Investigate the sensor cable and leader cable for physical damage. Check connectors for damage. Make repairs or replace components as necessary.
- 2. CABLE BREAK LED automatically turns off when normal sensor cable continuity is restored.

The Alarm Relay automatically returns to the NORMAL position when cable continuity is restored.

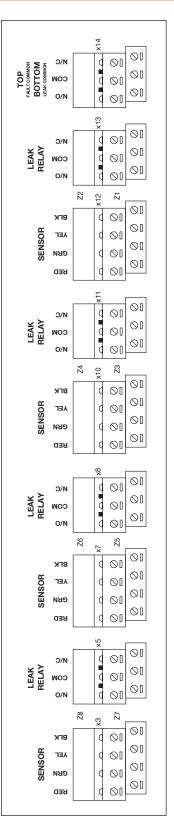
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## FIG 8. TERMINAL CONNECTION LAYOUT



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