

No. 1030 ALARM PROCESSING CENTER

GENERAL INFORMATION:

The No. 1030 Alarm Processing Center is a local alarm panel with the following features:

Basic Supervised Protection Zone for Normal and Fast Acting Perimeter and Interior Devices.

24 Hour Emergency (Panic) Circuit.

LED Indication of Zone Status and A.C. Power.

Outputs for Bell or Electronic Siren and Closure of Dry Contacts.

Bell Test Switch.

Includes Low Voltage Plug-in Transformer.

Uses 6V. Dry Cell Standby Battery (e.g.: No. 866; not included).

System Turned ON and OFF from any SPST Keyswitch (e.g.: Nos. 5073, 4073, 2174; not included). Keyswitch may be mounted on cabinet, or remotely.

INSTALLATION AND WIRING:

Do not connect the battery or plug-in transformer until all other wiring has been completed.

See Figure 1

Terminals

Wiring Information

- | | |
|---------|---|
| (1,2) | Terminal Numbers 1 and 2 do not appear on this panel. |
| 3,4,5,6 | <u>Basic Protection Zone (Double Loop)</u> : Run a pair of wires from terminals 3 and 4 to all protection points in this zone and return to terminals 6 and 5 respectively. Connect protection devices into the two loops as follows: |
| 4,5 | <u>Normal Response Loop</u> : Connect closed circuit contacts of normal acting devices (such as magnetic contacts, foil, etc.) in series with this loop. Maximum permissible resistance: 300 ohms. |
| 3,6 | <u>Fast Response Loop</u> : Connect closed circuit contacts of fast acting devices (such as vibration contacts and photoelectric units without built-in delays) in series with this loop. Maximum permissible resistance: 300 ohms. |

Notes: An open in either of these loops, or a short between loops will cause an immediate alarm when the system is ON, and the ZONE STATUS LED will light.

Devices with open circuit contacts (such as mats) may be connected between these loops (or into the fast response loop with an Ademco No. 602 Mat Coupler).

Emergency (Panic) Switches: Connect locking type open circuit emergency switches (such as Nos. 264, 266, 268 or 269) in parallel across these terminals.

Operation of an emergency switch at any time (system OFF or ON) will cause the alarm bell to ring and the output contacts to close. Alarms activated from emergency switches continue until the switches are reset.

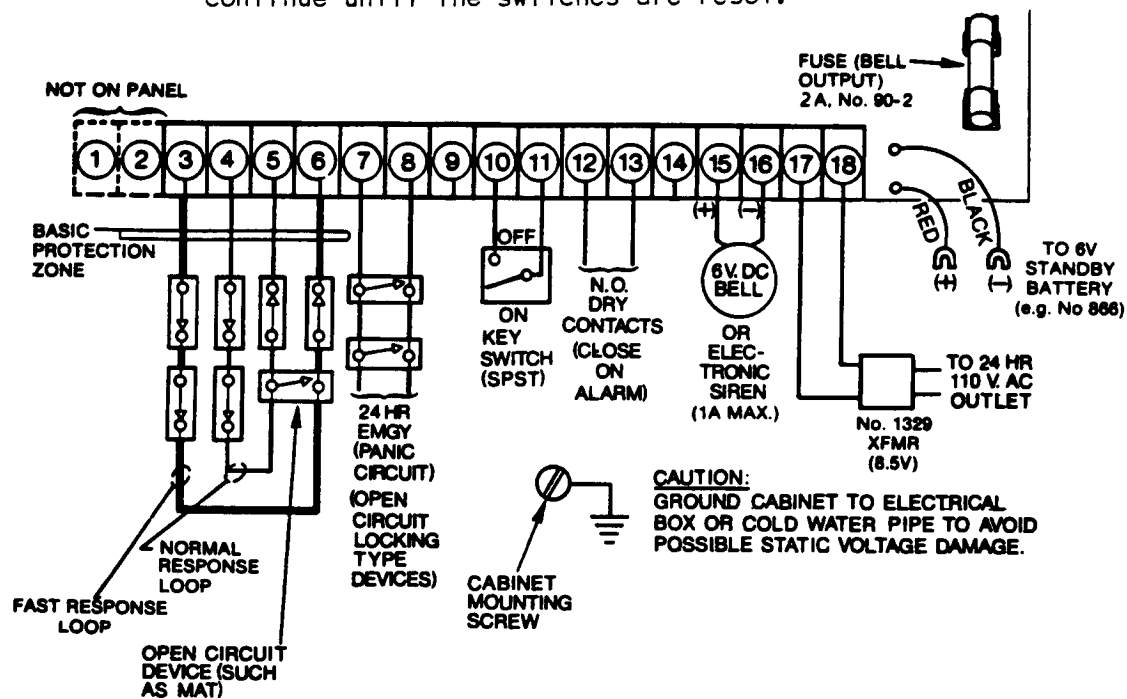


FIGURE 1: Field Connections

10, 11

Keyswitch: Connect a single pole single throw keyswitch with key removable in "make" and "break" positions across these terminals (OFF Position - Contacts CLOSED; ON Position - Contacts OPEN). A knockout is provided on the cover of the No. 1030 for panel mounting.

Suggested keyswitches: No. 2174 (Flat Key), No. 4073 (Round Key), No. 5073 (Higher Security, Pick Resistant).

CAUTION: The keyswitch may be located remotely (for instance, in lieu of a shunt switch at the entry/exit door) provided the ZONE STATUS LED can be seen when the system is turned ON. Otherwise, chances of causing a false alarm by closing with protection not properly set are increased.

12, 13

N.O. Dry Contacts: These contacts may be used to trip a digital communicator, telephone dialer or as desired. The contacts close on alarm (burglary or emergency) and open upon bell cut-off (burglary) or when emergency (panic) switches are manually reset. (The contacts do not close during bell test.)

15 (+), 16 (-)

6 V.DC Bells or Electronic Sirens having a combined total rating of 1 ampere may be connected in parallel across these terminals. If electronic sirens are used, observe polarity.

17, 18

Power Input, 8.5 V.AC: Turn the keyswitch OFF and connect

these terminals to the output terminals of the No. 1329 Transformer supplied. Do not plug in the transformer yet.

Ground Ground the cabinet to an electrical box or cold water pipe.

Red and Standby Battery: After all other wiring is completed, and
Black Leads with the keyswitch OFF, connect these leads to a 6V. battery
 (not supplied). Observe polarity! (A No. 866 Dry Cell
 Battery will provide standby power for up to 2000 hours.)

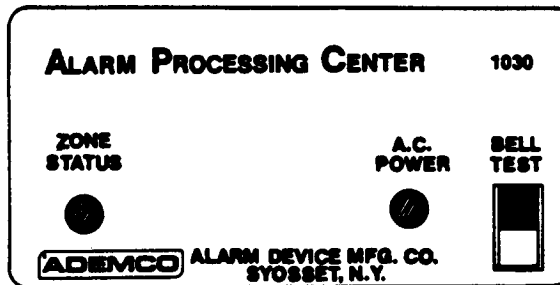


FIGURE 2: Indicators

TESTING AND CHECKOUT:

Perform these tests after the wiring and connections described in the previous section have been completed.

The keyswitch should still be OFF.

1. Plug the transformer into a 115 V.AC outlet that is ON 24 hours a day.
The A.C. POWER LED should light.
2. Observe the ZONE STATUS LED: It will be out if the protective circuit is properly wired and all contacts are properly set.
3. When the ZONE STATUS LED is out, do the following and observe the LED light in each case while the momentary disturbance is present.
 - a. Open the fast response loop momentarily.
 - b. Open the normal response loop momentarily.
 - c. Short the fast and normal loops momentarily.
4. Test the Emergency (Panic) Circuit by momentarily shorting terminals 7 and 8 or tripping an emergency switch. The bell should ring only as long as the short remains.
5. Turn the System ON by following the procedure given in the OPERATION section.
6. Turn the System OFF by following the procedure given in the OPERATION section.

OPERATION:

When Turning System ON:

1. A.C. POWER LED should be lit at all times. If out, A.C. failure to unit is indicated.
2. ZONE STATUS LED should be off. If lit, protective circuit is not set properly.

Caution: If the ZONE STATUS LED is lit, turning the keyswitch ON will cause an alarm immediately.

3. Depress BELL TEST Switch to test bell.

4. a. If ON/OFF keyswitch is on No. 1030's Cabinet or elsewhere within premises:
Turn keyswitch ON to arm system and leave via entry/exit door provided with shunt lock.
- b. If ON/OFF keyswitch is used on entry/exit door in lieu of shunt lock:
Leave via entry/exit door and turn keyswitch ON to arm system.

To Turn System OFF:

1. a. If ON/OFF keyswitch is within protected premises: Enter via (shunt lock equipped) entry/exit door and turn ON/OFF keyswitch OFF.
- b. If ON/OFF keyswitch is on entry/exit door: Turn keyswitch OFF before entering.

Note: The ZONE STATUS LED on the No. 1030 will go on and off as the protective loops open and close during normal operation of doors, windows, etc., while the system is OFF.

SPECIFICATIONS:

Physical:

Width: 8" (20.3 cm)
Height: 10" (25.4 cm)
Depth: 3" (7.6 cm)

Electrical:

Voltage: 8.5 V.AC (From No. 1329
Plug-in Transformer)

Current (per loop): 4 ma
Maximum Resistance (per loop): 300 ohms
Bell Circuit Output: 1 A maximum at 6 V.DC, (2 A Fuse, No. 90-2)

Output Relay Contacts: SPST, 2 A Rating
Standby: 6V. Battery (No. 866 Dry Cell Battery
can provide up to 2000 hours standby)

Note: Any dry cell battery will self-discharge, even if not used.
Check periodically and replace at least annually. Be sure to replace if an alarm occurs during a period of AC power failure.