

7600 ANNUNCIATOR / CONTROLLER

**Monitor/Control
4 to 100+ Zones**

**Delayed Egress
Compatible**

**Forced Door
Annunciation**

**System Status
Indicator LEDs**

**Key Enabled
Guard Function**

**Console Alarm
Acknowledge**



Remote Monitoring and Control

The 7600 Series Annunciator/Control System can handle over 100 zones. Standard panels are offered in four and eight zone configurations. Consoles are expandable in four zone increments. Custom panels are available for console or rack mounting.

Tri-state LED Indicators

The complete state of each zone is indicated by individual tri-state LEDs. Each zone LED will reflect the following conditions:
SECURE - Door closed and locked
SHUNTED - Door closed and unlocked
ACCESS - Door open authorized access
ALARM - Door forced or held open
ACKNOWLEDGED - Acknowledged alarm

Remote Door Release

Individual doors may be remotely unlocked to allow momentary access or an extended free access condition. Door position (open/closed) is indicated in this by-pass mode.

Delayed Egress Compatible

This annunciator/controller is compatible with most NFPA compliant delayed egress systems. When used with the Dortronic Systems EDR System: 101, the condition of all exit doors is displayed on the console panel. Any remote door can be released for free passage from the control panel. Unauthorized exit attempts are reported on the annunciator as alarms.

Authorized Remote Access Monitored

Valid ingress or egress may be authorized through an independent access control system or by manual station control hardware such as a key switch or keypad. These activities are reported as authorized access on the console.

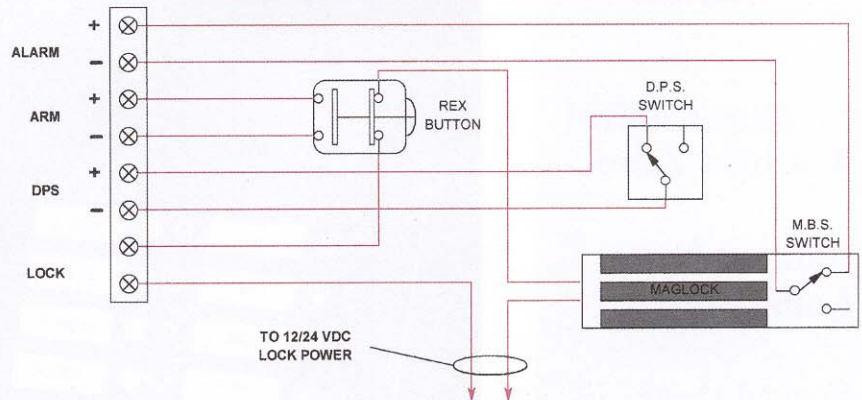
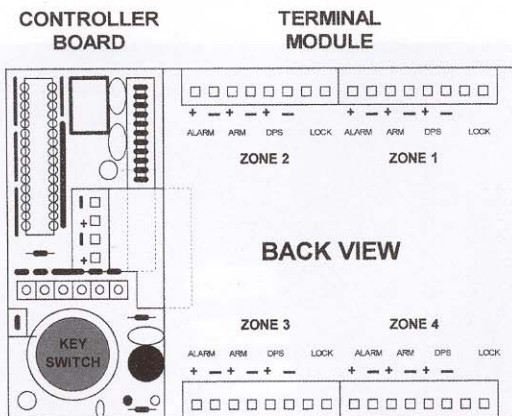
Selectable Override Authority

Door release and zone alarm shunt capability may be limited to only authorized supervisors through the key switch. Alarms can be monitored and individually acknowledged from the panel by any operator without the supervisor key.



7600 SERIES ANNUNCIATOR / CONTROLLER

7600 SERIES TYPICAL ZONE HOOK-UP DIAGRAM



Annunciator/Controllers

- 7604-H - Four Zone Hardwired on three gang panel
- 7608-H - Eight Zone Hardwired on four gang panel
- 7600-H - Custom Hardwired Panel
Flush or 19" Rack Mounting

Slave Annunciator/Control Panel

Additional slave annunciator/controllers are available for custom configurations.

Zone Inputs

- Door Position Switch - Normally closed
- Armed/Disarmed - Normally open.
- Alarm/Tamper - Normally closed.

Zone Outputs

- Authorized Unlock - SPDT relay

Power Requirements

12 Volts DC. Less than one amp needed for four or eight zone panels.

Functionality

- Main Control LED - Indicates power on and status of communication lines.
- Key Switch - Four position
 - Normal - Total monitor & control
 - Restricted - View & acknowledge
 - Test/Reset - Lamp test & reset
 - Silence - Alarm sounder off
- Sounder - Piezo alarm alert (Silenced by acknowledgment of alarm by zone toggle or master control key/toggle switch)
- Zone Toggle - Two position switch
 - Normal - Lock on/Alarm enabled
 - By-pass - Lock off/Alarm shunted
- Zone LED - Tri-state steady/flashing
 - Green = Door closed & locked
 - Yellow = Door closed & unlocked
 - Yellow Flash = Authorized access
 - Red = Alarm state acknowledged
 - Red Flash = Alarm condition (Zone alarm unacknowledged)
- Latching Alarm LED and Alarm Sounder will latch upon an alert condition until the zone in alarm is acknowledged and field devices are returned to a secured condition.

Typical Operation

All LEDs are steady green when a zone is secure. Zone toggles in the "secure" position will allow low voltage electric locks to be energized by dry contacts in the console.

Opening any secured door will cause the LED for that zone to flash red and the alert sounder to be activated. Alarms are acknowledged by placing the zone toggle into the by-pass position momentarily, which silences the alert sounder. If the alarm condition still exists, the LED will be steady red. Restoration of the field device to normal condition returns the LED to steady green.

Any zone may be shunted or any door unlocked by placing the zone toggle into the by-pass position. A shunted zone is indicated by a steady yellow LED. The authorized opening of any door will cause the LED indicator to flash yellow.

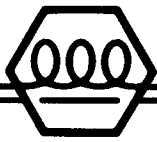
Fail-safe or fail-secure electric locks can be controlled from the console. The key switch can be used to permit only supervisors to unlock doors, while allowing alarms to be monitored and acknowledged by other security guards.

Distributed by:



**DORTRONICS
SYSTEMS, INC.**

1668 SAG HARBOR TURNPIKE, SAG HARBOR, NY 11963
www.dortronics.com - (800) 906-0137 - (631) 725-8148 FAX



DORTRONICS 7600 HARDWIRED ANNUNCIATOR USER'S GUIDE

The 7600 series annunciator panel is a four zone, expandable, annunciator / control panel which allows the user to monitor and control the operation of four zones per module. On-board tri-color LED's and an audible piezo sounder report the door status to the user. Door control is provided by means of one toggle switch per zone, optional momentary toggle switches are available. The 7600 can be silenced, restricted, or tested by use of a key switch.

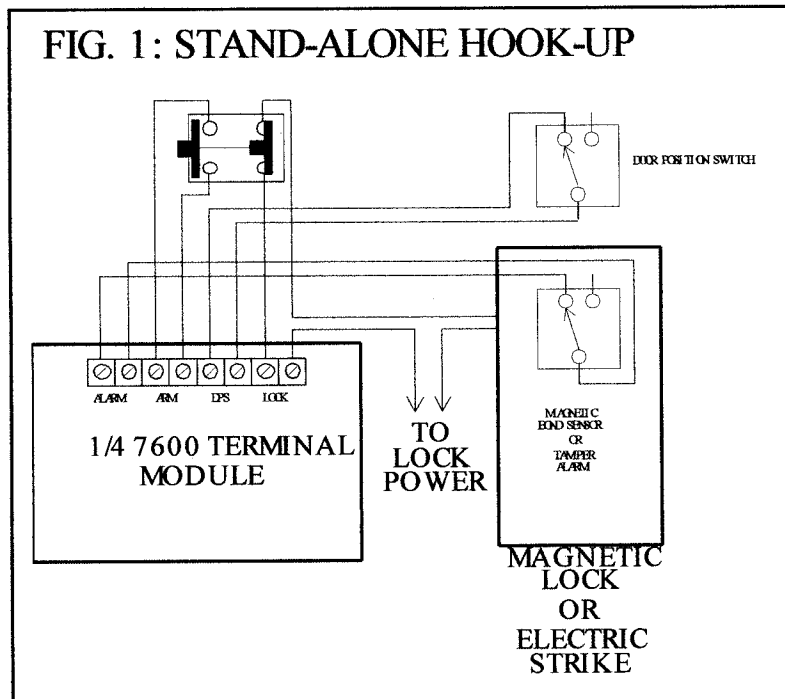
The unit provides three inputs and one output per zone:

- | | |
|-------------------------------|-------|
| 1. Alarm input | ALARM |
| 2. Arm input | ARM |
| 3. Door position switch input | DPS |
| 4. Lock output | LOCK |

Also provided is a single system status LED that flashes continuously to provide a visual indication that the system is operating properly.

INSTALLATION

STAND ALONE INSTALLATION



ALARM input - When used in a stand-alone installation, the alarm input is usually connected to the "magnetic bond sensor" of a magnetic lock. This input, however, may be used for any device that signals an alarm condition, such as a tamper switch. The system goes into alarm when this contact opens. If this input is not being used, then a jumper should be installed.

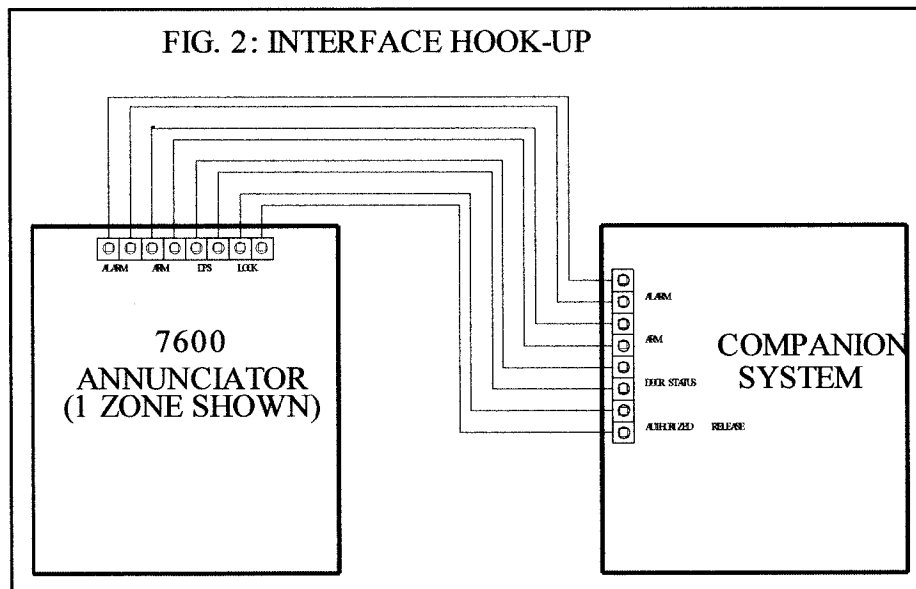
ARM input - This input is used to arm or disarm the alarm capability of the 7600. If a local station control is used to release the lock, then the control should be a double pole double throw type, switch. One set of contacts N.C. is used for door release while the other set N.O. connects to the ARM input so that the system is disarmed while the door is released. The system is armed when this contact is open, when this contact is closed, an "authorized entry" or "alarm shunt" is indicated by a flashing amber led.

DPS input - This connects to the "door position switch" and is used to report the door status to the 7600. DPS should be closed when the door is closed.

LOCK output - This is a dry contact relay output that may be connected directly to the magnetic lock. Please note that since this output is a dry contact, external power must be used for the locking device, as per the hook-up drawing figure 1. This output may be configured, via jumpers on the back side of the terminal module board, for fail-safe or fail-secure devices. (See figure 4.)

INTERFACE INSTALLATION

The 7600 may be installed to interface with a companion system such as the EDR-101 delayed egress system, or a door prop alarm. Hook-up in such a system is straight forward, requiring only that the 7600 input and output terminals be connected to the corresponding terminals on the companion system.



ALARM input - This connects to the "alarm" output of the companion system. The alarm input is active when open, therefore the alarm output of the companion system should be normally closed. If not being used, this input should be bypassed with a jumper. (See figure 3.)

ARM input - Connects to the "arm" output of the companion system. This input is used to arm or disarm the alarm capability of the 7600. The system is armed when this input is open.

DPS input - This connects to the "door position switch" and is used to report the door status to the 7600. DPS should be closed when the door is closed.

LOCK output - This is a dry contact relay output that connects to the "authorized access" or "release" input of the companion system. This output may be configured as either a "normally closed" or "normally open" output via jumpers on the back side of the terminal module board. (See figure 4.)

OPERATION

INITIAL POWER-UP

All terminal module inputs should be in their "normal" or closed position, the zone toggle switches should be in the "normal" or left-hand position, and the key switch should be in the "normal" position prior to the initial power-up. After power-up, move the key switch to the "test" position. The audible sounder should sound, and all LED's should be yellow indicating that the unit is operating properly.. Now move the key switch to the "normal" position. The audible sounder should silence and the LED's should turn green. The system LED should flash green.

DOOR CONTROL

The normal mode of operation is with the toggle switches in the left hand "normal" position. The doors are locked in this position, and the alarms for that particular zone are enabled. The zone LED will show green indicating that the door is secured. An alarm condition would cause the audible sounder to beep and the zone LED will flash red. The alarm is acknowledged by momentarily placing the zone toggle in the shunt position and returning it to the normal position. This causes the audible alarm to silence and causes the zone LED to change from flashing red to steady red. The LED will remain red until the condition that caused the alarm is remedied.

Any door may be unlocked by placing the zone toggle switch in the shunt position. In this position the door remains unlocked, and the zone LED shows yellow. If the door opens during this mode of operation, the LED will flash yellow. All alarms are disabled in this mode of operation.

The key switch may be used to limit the ability to unlock doors to supervisors only, while still allowing others to monitor and acknowledge alarms.

Optional momentary toggle, or push button switches are available. This option prevents the operator from leaving any of the zone switches in the shunt position for extended periods of time. (Note: with momentary switch option N.O. locking devices may not be used)

7600 SERIES HOOK-UP DIAGRAM

- (A) THE CONTROLLER BOARD'S POWER TERMINALS MUST BE CONNECTED TO A 12VDC REGULATED POWER SUPPLY. 200 MA. REQUIRED PER TERMINAL MODULE. (200 ma. per 4 zones)
- (B) IF MONITORING DOOR STATUS ONLY THROUGH THE DOOR POSITION SWITCH (DPS) INPUT, AND THE "ALARM" INPUT IS NOT USED, THEN THE INPUT MUST BE BYPASSED USING JUMPERS. (factory default)

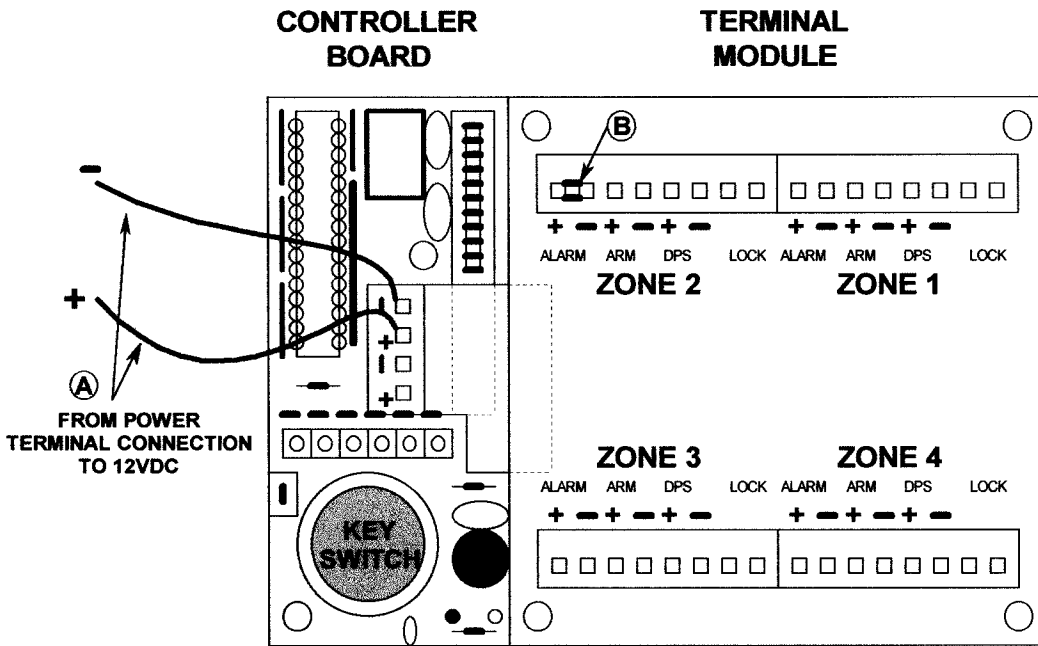


FIG. 3:

TERMINAL MODULE BACK

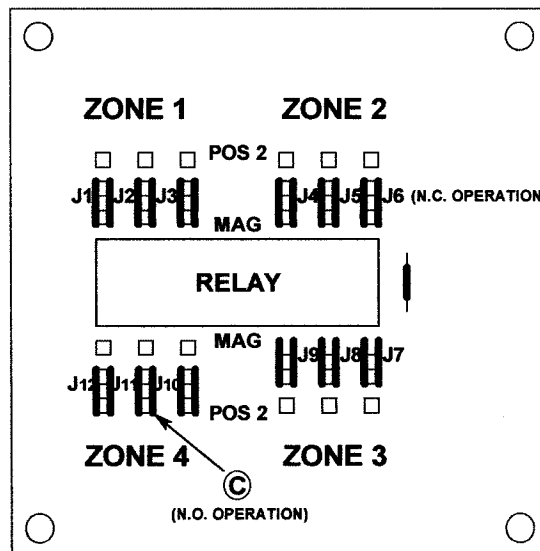


FIG. 4:

- (C) TO CHANGE LOCK OUTPUT FROM N.C. ("MAG" default) TO N.O. ("POS 2") REMOVE BOARD AND TURN OVER. MOVE JUMPERS IN GROUPS OF 3 PER ZONE. EXAMPLE: ZONE 4 (J12-J10) REPLACE BOARD MAKING SURE TO ALIGN DOUBLE ROW HEADERS ON BOTTOM OF BOARD