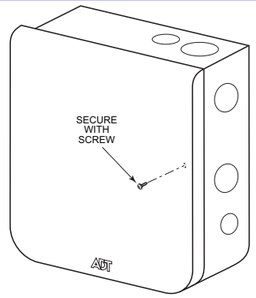
ADT ADTHYBWL Series Security Systems
Quick Installation Guide

Ref: ADTHYBWL Series

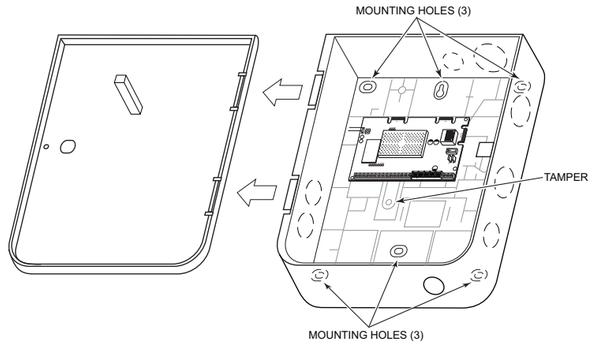
Mount the Control

1. Open the cabinet door fully and remove by pulling to the left.
2. Remove the cabinet knockouts needed for wiring entry.
3. Mount the control cabinet to a sturdy wall in a clean, dry area, which is not readily accessible to the general public, using fasteners or anchors (not supplied) with the four cabinet mounting holes.
4. Install the ADTZWM (Wi-Fi® and Z-Wave®) and/or ADTLTE Communication Module(s) (if used).
5. When installation, wiring and programming is completed, install the cabinet door and secure with the provided screw.

OPTIONAL KEY LOCK: If desired, a key lock can be installed (K4445V1). See Installation Instructions for details.



Securing the Cabinet Door



Mounting the Cabinet

Optional ADTZWM and ADTLTE Communications Module Note: Refer to the ***Specific Module Installation*** section in the online *Installation & Reference Guide* for instructions on mounting this module.

Connect the Power Supply & Battery

Power Supply (P/N 300-10211 or 300-10211-CAN in Canada)

- Do not plug power supply into the AC outlet until all wiring connections to the control are complete. As a safety precaution, always power down the control when making such connections.

Battery Connections

- After all connections to the control are completed and **after AC power has been applied**, connect the red and black flying leads on the control board to the battery.
- **IMPORTANT:** This control will not power-up on battery alone (AC power must be applied). However, once the system is powered up, it will operate on battery if AC is lost.

CALIFORNIA STATE FIRE MARSHALL (CSFM) AND UL RESIDENTIAL FIRE 24-HOUR BATTERY BACKUP REQUIREMENTS

The California State Fire Marshal and UL have regulations which require that all residential fire alarm control panels must be provided with a backup battery which has sufficient capacity to operate the panel and its attached peripheral devices for 24 hours in the intended standby condition, followed by at least 4 minutes in the intended fire alarm signaling condition. This control panel can meet these requirements without using a supplementary power supply, provided that the panel's auxiliary power and bell output currents are limited as listed.

Connect the Power Supply & Battery (Continued)

UL For UL installations and Residential fire installations, refer to the chart below for the correct battery size required to meet the mandatory standby time.

OUTPUT LIMITATIONS AND REQUIRED BATTERIES

Output Current Limits		Battery Information	
Current Total	**Max. Aux. Current**	**Battery Capacity (Amp/Hrs)**	**Recommended Battery (Yuasa No.)**
600mA maximum total of auxiliary power plus bell output currents	110mA	7AH	NP7-12

Connect Devices, Zones and Sounder

Refer to the Wiring Diagram on the reverse side for connection information. NOTE: This system uses a range of reserved addresses for each type of device.

1. **Connect keypads and other devices.**

Wire Size	Total Current of All Devices Connected to a Single Wire Run				
	50 mA or less	**100 mA**	**300 mA**	**500 mA**	**600 mA**
#22	900ft (274m)	450ft (137m)	150ft (46m)	90ft (27m)	75ft (23m)
#20	1400ft (427m)	700ft (213m)	240ft (73m)	140ft (43m)	120ft (37m)
#18	1500ft (457m)	1100ft (335m)	350ft (107m)	220ft (67m)	170ft (52m)
#16	1500ft (457m)	1500ft (457m)	550ft (168m)	350ft (107m)	270ft (82m)

The length of all wire runs for both partitions combined must not exceed 4000 feet (1219m) when unshielded quad conductor cable is used or 2000 feet (610m) if shielded cable is used.

- Do not locate the receiver or transmitters on or near metal objects. This will decrease range and/or block transmissions.
- Do not locate in an area of high RF interference (indicated by frequent or prolonged lighting of the receiver's LED; random flicker is OK).
- Do not locate RF receiver closer than 10 feet from any keypads.

Touchpad (WTP100)

- Connect touchpad field wiring to the GND, AUX, A and B terminals.

Relay Modules

- Connect desired field wiring to the module's relay contact terminals. (when available)

Communication Module (refer to the documentation provided with the module.)

- LTE (ADTLTE Series)
- WiFi/Z-Wave (ADTZWM)

2. **Connect hardwire zones to the appropriate zone terminals.**
3. **On-Board Trigger Connections**
   - Connect field wiring to the appropriate trigger pin using the 4-wire cable (N4632-4, not supplied).
   - Trigger outputs will go low on power-up.
4. **Connect the external sounder to the GND and BELL terminals.**
   - If not using bell supervision, connect the supplied 820 ohm resistor across the GND and BELL terminals. If using bell supervision, see the next bullet point.
   - If supervised output desired, see Sounder Supervision wiring diagram on reverse side, and program accordingly.
5. **Install Wireless Zone Transmitters** (Programmed via alarm.com).

Program the Control

Refer to the to the MobileTech installer app for programming instructions.

Test the System

Refer to the Refer to the MobileTech installer app for testing instructions.

Major Features and Capacities

Feature	Details
Partitions	4
Hardwire Zones	8 (1-7 and one dedicated smoke zone)
Maximum Devices	250 Devices (includes sensors, keypads, keyfobs, touch screens, Z-Wave, Bluetooth (for mobile devices), cameras and wiselink) • 128 SiX Series sensors • 32 Keyfobs (8 button) • 6 Bluetooth (BLE Phones) • 8 Touchpads/Touchscreens • 8 Motion Viewers • TBD Z-Wave Devices • TBD IP Cameras
Security Codes (Users)	96 Includes Master User (#1)
Outputs	18
On-Board Triggers	2

Specifications

Dimensions:	10-5/16" W x 12-1/4" H x 3.5" D (262mm x 311mm x 89mm)
Electrical:	
Voltage Input:	13.5VDC, 1.8A from plug-in power supply, Part No. 300-10211 or 300-10211-CAN (Canada)
Alarm Sounder:	10.5-13.8VDC, 2.0 Amp output can drive 12V Bell or 702
Auxiliary Power Output:	10.5-13.8VDC, 200mA max.
Backup Battery	12VDC, 7AH (sealed lead acid type). Charging Voltage: 13.8VDC
Communication Formats:	4-digit Contact ID
Maximum Zone Resistance:	Zones 1–8 = 300 ohms excluding EOLR standard zones

WARRANTY INFORMATION

For the latest warranty information, please go to: www.honeywell.com/security/hsc/resources/wa.

For patent information, see www.honeywell.com/patents

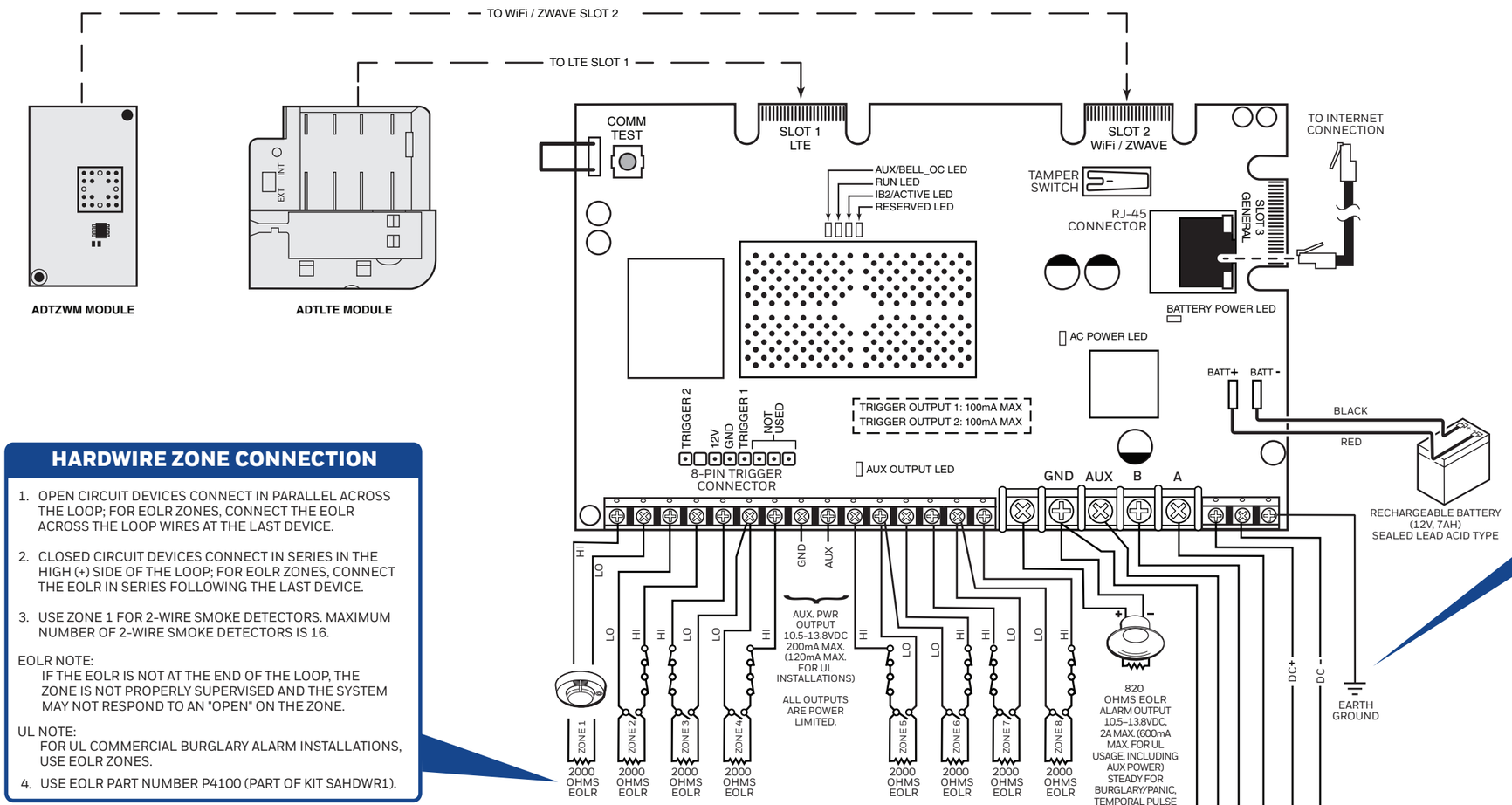
Warranty Patents

FOR DOCUMENTATION AND SUPPORT

See Installation and Reference Guide P/N 800-24125 or higher, which can be ordered by contacting Customer Service at 1-800-238-2727 (1-800-ADT-ASAP). For technical support please call the ADT Product Support Group at 1-877-748-7628, option 3.

800-24126 2/18 Rev. A Part 1 (BETA)

ADT Security Services
1501 Yamato Road
Boca Raton, FL 33431



HARDWIRE ZONE CONNECTION

1. OPEN CIRCUIT DEVICES CONNECT IN PARALLEL ACROSS THE LOOP; FOR EOLR ZONES, CONNECT THE EOLR ACROSS THE LOOP WIRES AT THE LAST DEVICE.
2. CLOSED CIRCUIT DEVICES CONNECT IN SERIES IN THE HIGH (+) SIDE OF THE LOOP; FOR EOLR ZONES, CONNECT THE EOLR IN SERIES FOLLOWING THE LAST DEVICE.
3. USE ZONE 1 FOR 2-WIRE SMOKE DETECTORS. MAXIMUM NUMBER OF 2-WIRE SMOKE DETECTORS IS 16.

EOLR NOTE:
IF THE EOLR IS NOT AT THE END OF THE LOOP, THE ZONE IS NOT PROPERLY SUPERVISED AND THE SYSTEM MAY NOT RESPOND TO AN "OPEN" ON THE ZONE.

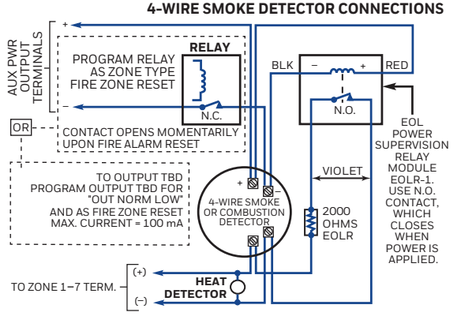
UL NOTE:
FOR UL COMMERCIAL BURGLARY ALARM INSTALLATIONS, USE EOLR ZONES.

4. USE EOLR PART NUMBER P4100 (PART OF KIT SAHDWR1).

2-WIRE SMOKE DETECTORS

Detector Type	System Sensor Model No.
Photoelectric w/heat sensor	2WT-B
Photoelectric	2W-B
Photoelectric	2151 w/B110LP base

4-WIRE SMOKE DETECTOR CONNECTIONS



SOUNDER CONNECTION

IF NOT USING A SOUNDER

- CONNECT THE 820 OHM BELL RESISTOR ACROSS CONTROL'S BELL AND GND TERMINALS OTHERWISE SEE SOUNDER SUPERVISION BELOW.

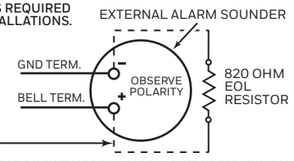
IF USING A SOUNDER

- CONNECT SOUNDER TO BELL AND GND TERMINALS.
- SOUNDER ACTIVATES UPON ALARM EVENT.

  ALARM OUTPUT: 10.5–13.8VDC, 2A MAX. (600mA MAX. FOR UL USAGE, INCLUDING AUX POWER).
  STEADY FOR BURGLARY/PANIC.
  TEMPORAL PULSE SOUNDING FOR FIRE.
  UL: MUST BE A UL LISTED AUDIBLE SIGNAL APPLIANCE RATED FOR 10.2-13.8 VDC AND BE MOUNTED INDOORS.
- USE ADEMCO No. 702 SIREN, OR 12V BELL.
- A BATTERY MUST BE INSTALLED BECAUSE THE BATTERY SUPPLIES THE SOUNDER CURRENT.

UL: BELL SUPERVISION IS REQUIRED FOR FIRE ALARM INSTALLATIONS.

CONNECT AN 820 OHM RESISTOR ACROSS THE LAST EXTERNAL SOUNDER AS SHOWN BY THE DOTTED LINE.



DO NOT CONNECT THE RESISTOR DIRECTLY TO THE ALARM OUTPUT TERMINALS!

WEEKLY TESTING IS REQUIRED TO ENSURE PROPER OPERATION OF THIS SYSTEM. IN ADDITION, THIS SYSTEM MUST BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ONCE EVERY THREE (3) YEARS.

EARTH GROUND CONNECTION

THIS CONTROL DOES NOT NORMALLY NEED AN EARTH GROUND FOR RESISTANCE TO DAMAGE FROM LIGHTNING AND ELECTRICAL DISCHARGE. FOR ADDITIONAL PROTECTION IN AREAS OF SEVERE ELECTRICAL ACTIVITY, CONNECT TERMINAL 25 TO A GOOD EARTH GROUND. EXAMPLES OF GOOD EARTH GROUNDS:

METAL COLD WATER PIPE:
USE A NON-CORROSIVE METAL STRAP (COPPER IS RECOMMENDED) FIRMLY SECURED TO THE PIPE TO WHICH THE GROUND LEAD IS ELECTRICALLY CONNECTED AND SECURED.

AC POWER AND BATTERY CONNECTION

TRANSFORMER

1. CONNECT THE POWER SUPPLY TO THE GND AND AC+ TERMINALS. SEE WIRE RUN CHART.

   USE CAUTION WHEN WIRING THE POWER SUPPLY TO THE CONTROL.

POWER SUPPLY WIRE RUNS

Distance from control	Wire Size
Up to 25 feet	# 22
25 - 50 feet	# 20
50 - 75 feet	# 18
75 - 150 feet	# 16

NOTE: DO NOT CONNECT TO A RECEPTCLE CONTROLLED BY A SWITCH.

2. AFTER ALL WIRING CONNECTIONS ARE COMPLETE, PLUG POWER SUPPLY INTO A 110VAC UNSWITCHED OUTLET (24HR).
   - "AC LOSS" DISPLAYED IF VOLTAGE FALLS BELOW 11 VDC.

BATTERY

1. PLACE THE 12-VOLT BACKUP BATTERY IN THE CABINET.
2. AFTER ALL CONNECTIONS TO THE CONTROL ARE MADE AND AFTER AC POWER HAS BEEN APPLIED, CONNECT THE RED AND BLACK FLYING LEADS TO THE BATTERY.

   IMPORTANT: THE PANEL WILL NOT POWER UP INITIALLY ON BATTERY POWER ONLY. YOU MUST PLUG THE POWER SUPPLY IN FIRST, AND THEN CONNECT THE BATTERY.

POWER SHUTDOWN NOTE:
SYSTEM SHUTS DOWN SENSOR DETECTION PROCESSING IF CONTROL'S VOLTAGE DROPS BELOW 9.6V.

KEYPADS AND ADDRESSABLE DEVICE CONNECTION

CONNECT KEYPADS AND OTHER ADDRESSABLE DEVICES TO A, B, AUX AND GND TERMINALS.