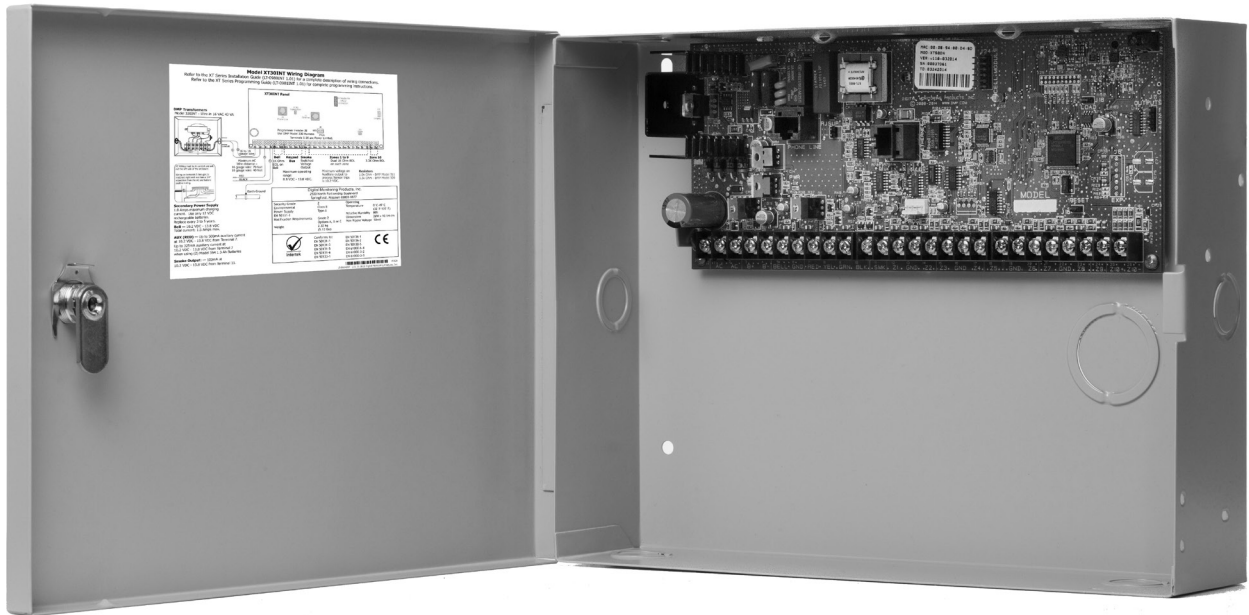


INSTALLATION GUIDE



XT30 INTERNATIONAL SERIES CONTROL PANEL

MODEL XT30INT CONTROL PANEL INSTALLATION GUIDE

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This information is subject to change without notice.

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Panel Specifications

1.1 Power Supply

Transformer Input: Wire-in — Model 320INT, 16 VAC, 43 VA, Primary input: 230 VAC, 50 Hz

Panel Current Draw: 400 mA AC

Standby Battery: 12 VDC, 1.0 Amps Max. charging current
Models 365, 366, 368, or 369
Replace every 3 to 5 years

Auxiliary Output: 12 VDC at 500 mA

Bell Output: 12 VDC at 1.5 Amps

Smoke Detector Output: 12 VDC at 100 mA

All circuits inherent power limited

Note: Please see the Listed Compliance Specifications section for certificated application requirements.

1.2 Communication

Built-in SDLC Digital Dialer communication to DMP Model SCS-1R Receivers

Built-in network communication to DMP Model SCS-1R or SCS-VR Receivers

Built-in or modular cellular communication to DMP Model SCS-1R or SCS-VR Receivers

Built-in CID (Contact ID) dialer communication to DMP Model SCS-1R Receivers

1.3 Panel Zones

Nine 1k Ohm EOL burglary zones: zones 1 to 9

One 3.3k Ohm EOL Class B powered fire zone with reset capability: zone 10

1.4 Keypads/Expansion

Connect up to eight supervised alphanumeric keypads per panel, four of which can be wireless keypads.

In addition, the following zone expanders can be added:

- One, eight, and 16-zone expansion modules
- Single-zone PIR and glassbreak detectors

1.5 Number of Zones

- Onboard zones 1-10
- Eight keypad bus addresses with zones 11-14, 21-24, 31-34, 41-44, 51-54, 61-64, 71-74, and 81-84
- Zone numbers 31 to 34 and 41 to 44 can support 1100 Series Key Fobs or DMP wireless output modules
- XT50INT has 16 additional onboard wireless zones numbered 80, 85-99

1.6 Outputs

The XT30INT panels provide four open collector outputs rated for 50 mA each. A Model 300 Output Harness is required. The open collector outputs provide the ground connection for a positive voltage source.

1.7 Enclosure Specifications

The XT30INT panels ship standard in a 340INT enclosure with EOL resistors, battery leads, user's guide, and programming sheet.

Enclosure Model	Size	Color	Construction (Cold Rolled Steel)
340INT	31.75 W x 24.13 H x 19.685 D cm	Gray (G)	20-Gauge
349INT	31.75 W x 29.21 H x 8.89 D cm	Gray (G)	20-Gauge
349AINT	33.25 W x 29.59 H x 9.14 D cm	Gray (G)	18-Gauge with 16-Gauge door

Introduction

2.1 System Configurations

The panel can be programmed to operate as any of the following system types:

- All/Perimeter system that provides one perimeter area and one interior area
- Home/Sleep/Away system that provides one perimeter, one interior, and one bedroom area. The bedroom area provides for any protection devices the user wants disarmed during their sleeping hours and armed in the Away mode.
- Six area system that provides areas of protection that can be independently armed or disarmed.

2.2 Caution Notes

Throughout this guide you will see caution notes containing information you need to know when installing the panel. These cautions are indicated with a yield sign. Whenever you see a caution note, make sure you completely read and understand its information. Failing to follow the caution note can cause damage to the equipment or improper operation of one or more components in the system. See the example shown below.



Always ground the panel before applying power to any devices: The panel must be properly grounded before connecting any devices or applying power to the panel. Proper grounding protects against Electrostatic Discharge (ESD) that can damage system components.

Remove All Power From the Panel! Remove all AC and Battery power from the panel before installing or connecting any modules, cards, or wires to the panel.

System Components

3.1 Wiring Diagram

The system wiring diagram in Figure 1 shows some of the accessory devices for use in various applications. A description of each module follows.

3.2 Lightning Protection

Metal Oxide Varistors and Transient Voltage Suppressors help protect against voltage surges on input and output circuits. This transient protection provides additional resistance to electrical surges such as lighting.

3.3 Accessory Devices

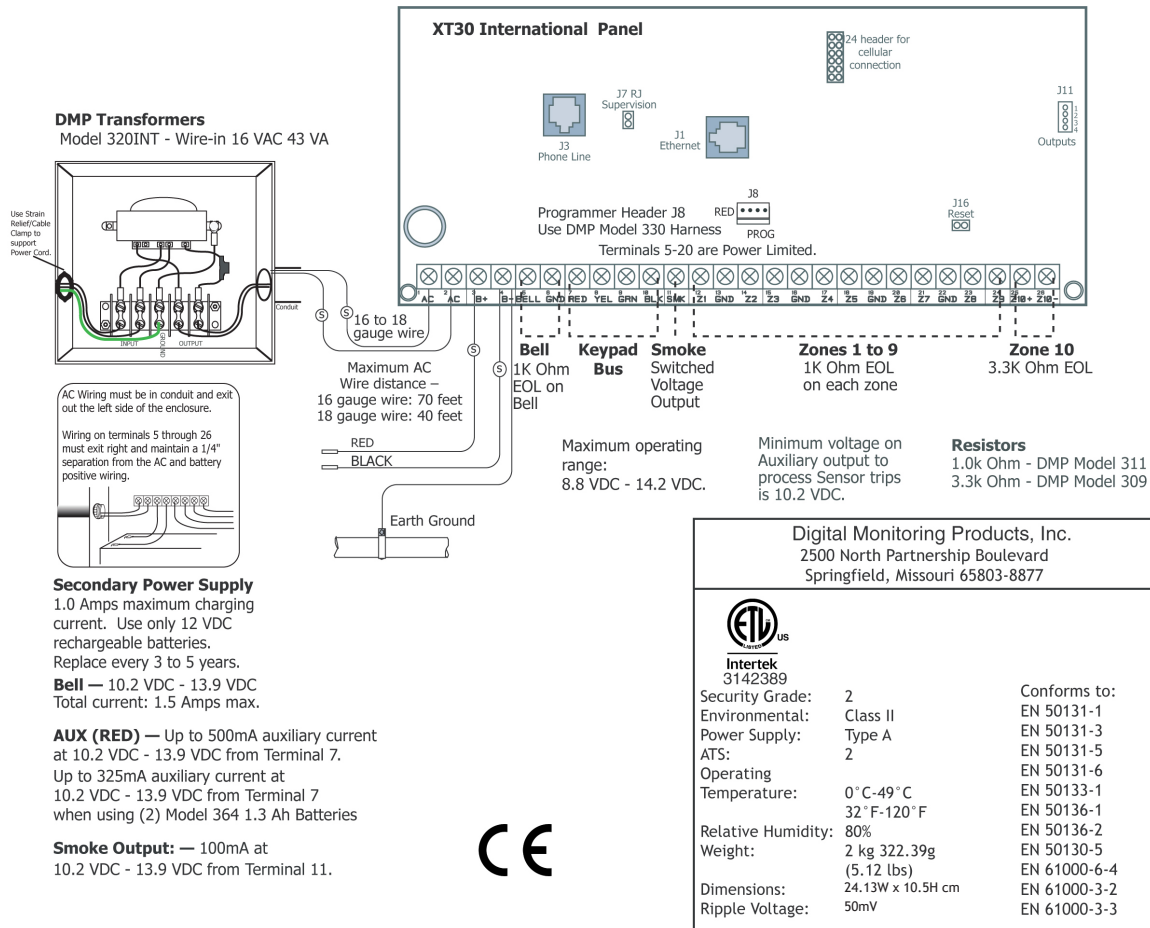
Cellular Communicator Cards	
263HINT HSPA + Cellular Communicator Card	Allows you to connect the XT30INT Series to any compatible HSPA+/SMS network.
Zone and Output Expansion Modules	
710 Bus Splitter/Repeater	Increases keypad wiring distance to 2500 feet.
714-8INT, 714-16INT Zone Expander	Provides Class B zones for burglary and non-powered fire devices.
712-8INT Zone Expander	Provides 8 zones for burglary devices.
860INT Relay Output Module	Provides one relay and three relay sockets for expansion of up to four relays.
DMP Two-Way Wireless Devices	
1100DINT Receiver	Supports transmitters in residential or commercial wireless operation on the keypad buss.
1100RINT Repeater	Provides additional range for wireless devices
1101INT Universal Transmitter	Provides both internal and external contacts that may be used at the same time to yield two individual reporting zones from one wireless transmitter.
1103INT Universal Transmitter	Provides both internal and external contacts that may be used at the same time to yield two individual reporting zones from one wireless transmitter. Requires EOL resistor for external contact. Provides Disarm/Disable functionality.
1106INT Universal Transmitter	Provides both internal and external contacts that may be used at the same time to yield two individual reporting zones from one wireless transmitter.
1107INT Micro Window Transmitter	Provides a window transmitter and magnet.
1142BC-INT Two-button Panic Belt Clip Transmitter	Provides portable two-button panic operation.
1142INT Two-button Panic Transmitter	Provides permanently mounted under-the-counter two-counter two-button panic operation.
1144-4INT (Four-Button) 1144-2INT (Two-Button) 1144-1INT (One-Button)	Key Fob transmitters designed to clip onto a key ring or lanyard.
1121INT PIR Motion Detector	Provides motion detection with pet immunity.
1126RINT PIR Motion Detector	Ceiling mount motion detector with panel programmable sensitivity and Disarm/Disable functionality.
1127CINT/1127WINT PIR Motion Detector	Wall mount motion detector with panel programmable sensitivity and Disarm/Disable functionality.
1129INT Glassbreak Detector	Detects the shattering of framed glass mounted in an outside wall and provides full-pattern coverage and false-alarm immunity.
1131INT Recessed Contact	Provides concealed protection for doors, windows or other applications.
734INT Wiegand Interface Module	Provides arming, disarming, and codeless entry using access control readers.
1135INT Siren	Provides a wireless siren.
1139INT Bill Trap	Provides a silent alarm option for retail and banking cash drawers.
Keypads	
LCD keypads	Allows you to control the panel from various remote locations. Connect up to eight keypads. Model 7060-WINT, 7063-WINT, 7073-WINT Thinline™ keypads, and 7872INT and 7873INT Graphic Touchscreen keypads to the keypad bus using terminals 7, 8, 9, and 10.

SYSTEM COMPONENTS

3.4 XT30INT Series International Wiring Diagram

Model XT30INT Wiring Diagram

Refer to the XT Series Installation Guide (LT-0980INT 1.01) for a complete description of wiring connections.
Refer to the XT Series Programming Guide (LT-0981INT 1.01) for complete programming instructions.



Installation

4.1 Mounting the Enclosure

The metal enclosure must be mounted in a secure, dry place to protect the panel from damage due to tampering or the elements. It is not necessary to remove the PCB when installing the enclosure. The PCB may be installed in the standard 340INT Small enclosure, optional 349INT Medium enclosure, or the optional 349AINT Attack enclosure.

The 349AINT Attack Resistant enclosure is factory shipped with one knockout on the top left of the enclosure. As needed, additional knockouts may be added at the time of installation. See Figure 3 for the positions on the enclosure that can be added. Each additional knockout must be filled with conduit.

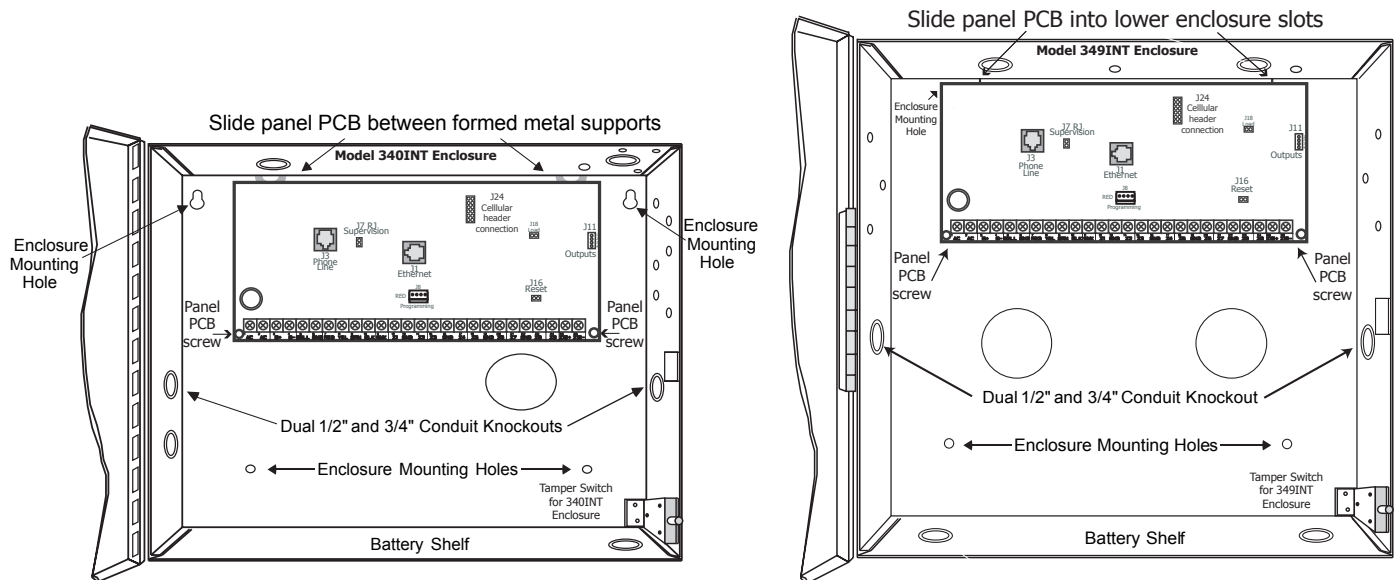


Figure 2: Standard 340INT Enclosure (left), Optional 349INT Enclosure (right)

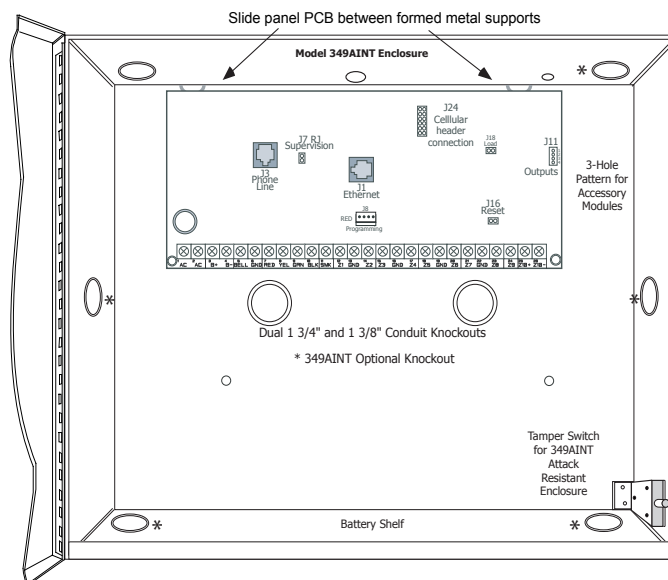


Figure 3: Optional 349AINT Enclosure

INSTALLATION

4.2 Mounting Keypads

DMP keypads have removable covers that allow the base to be mounted on a wall or other flat surface using the screw holes provided on each corner.

4.3 Installation Specifications

Several factors determine the performance characteristics of the keypad bus: the length of wire used, the number of devices connected, and the voltage at each device. When planning a keypad bus installation, keep in mind the following four specifications:

1. DMP recommends using 18 or 22-gauge **unshielded** wire for all keypad circuits. **Do not** use twisted pair or shielded wire for keypad bus data circuits.
2. On keypad bus circuits, to maintain auxiliary power integrity when using 22-gauge wire do not exceed 500 feet. When using 18-gauge wire do not exceed 1,000 feet. To increase the wire length or to add devices, install an additional power supply.
Note: Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode. Refer to the panel installation guide for the specific number of supervised keypads allowed.
3. Maximum distance for any one bus circuit (length of wire) is 2,500 feet regardless of the wire gauge. This distance can be in the form of one long wire run or multiple branches with all wiring totaling no more than 2,500 feet. As wire distance from the panel increases, DC voltage on the wire decreases.
4. Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2.0 VDC. If the voltage at any device is less than the required level, add an auxiliary power supply at the end of the circuit. When voltage is too low, the devices cannot operate properly.

For additional information refer to the 710 Installation Sheet (LT-0310) and or the LX-Bus/Keypad Bus Wiring Application Note (LT-2031).

Primary Power Supply

5.1 AC terminals 1 and 2

Connect the transformer wires to terminals 1 and 2 on the panel. Use no more than 70 ft. of 16 gauge, or 40 ft. of 18 gauge, wire between the transformer and the panel to deliver a minimum of 15.5 VAC when 500mA of current draw is used from the auxiliary power supply terminal 7.



Always ground the panel before applying power to any devices: The panel must be properly grounded before connecting any devices or applying power to the panel. Proper grounding protects against Electrostatic Discharge (ESD) that can damage system components. See Earth ground, in the Secondary Power Supply section.

5.2 Transformer Types

The transformer for the panel is 16 VAC 43 VA, which provides up to 1.5 Amps of bell output current, 500mA of auxiliary current, and 100mA of smoke detector output. Use the Model 320INT wire-in transformer with the panel. The total current available is limited by the total battery standby requirements of the installation.



The transformer must be connected to a 230 VAC 50 Hz commercial power outlet that is not controlled by a wall switch. **Never share the transformer output with any other equipment.**

5.3 Power LED

When either AC transformer power or DC battery power is connected to the panel the PWR LED shows steady green.

Secondary Power Supply

6.1 Battery Terminals 3 and 4

Connect the black battery lead to the negative battery terminal. The negative terminal connects to the enclosure ground internally through the XT30INT circuit board. Connect the red battery lead to the positive battery terminal. Observe polarity when connecting the battery.

Add a second battery in parallel using the DMP Model 318 Dual Battery Harness. **DMP requires each battery be separated by a PTC in the battery harness wiring to protect each battery from a reversal or short within the circuit. See Figure 4.**

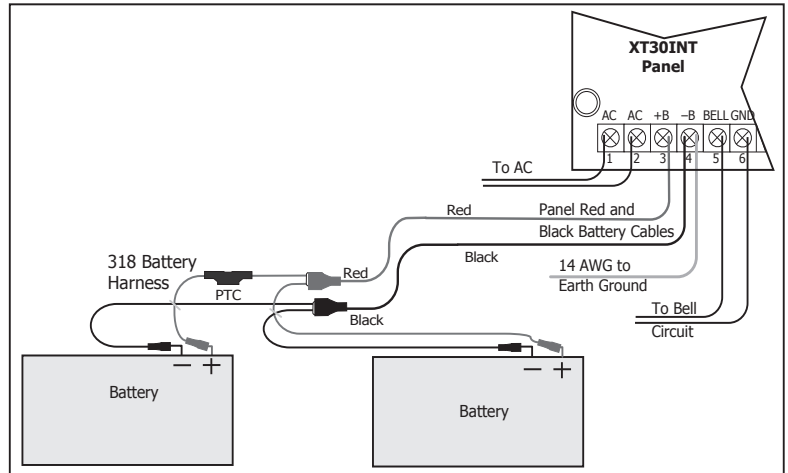


Figure 4: Wiring Multiple Batteries



Use sealed lead-acid batteries only:

Use 12 VDC sealed lead-acid rechargeable battery. Batteries supplied by DMP have been tested to ensure proper charging with DMP products.

GEL CELL BATTERIES CANNOT BE USED WITH THE XT30INT SERIES INTERNATIONAL PANEL.

6.2 Earth Ground

Terminal 4 of the panel must be connected to earth ground using 14 gauge or larger wire to provide proper transient suppression. DMP recommends connecting to a metal cold water pipe or ground rod only. Do not connect to electrical conduit or a telephone company ground.

6.3 Replacement Period

DMP recommends replacing the battery every 3 to 5 years under normal use.

6.4 Discharge/Recharge

The panel battery charging circuit float charges at 13.8 VDC at a maximum current of 1.5 Amps using a 43 VA transformer. The total current available is reduced by the combined auxiliary current draw from terminals 7, 11, and 25. The various battery voltage levels are listed below:

Battery Trouble:	Below	11.9 VDC
Battery Restored:	Above	12.6 VDC

6.5 Battery Supervision

The panel tests the battery once every hour when AC power is present. This test occurs 15 minutes past each hour and lasts for five seconds. A load is placed on the battery and if its voltage falls below 11.9 VDC a low battery is detected. If AC power has failed, a low battery is detected any time the battery voltage falls below 11.9 VDC.

If a low battery is detected with AC power present, the test is repeated every two minutes until the battery charges above 12.6VDC; the battery restored voltage. If a faulty battery is replaced with a fully charged battery, the restored battery will not be detected until the next two-minute test is done.

6.6 XT30INT Power Requirements

During AC power failure, the panel and all auxiliary devices connected draw their power from the battery. All devices must be taken into consideration when calculating the battery standby capacity. On the following page is a list of the power requirements of the panel. Add the additional current draw of DMP keypads, smoke detector output, and any other auxiliary devices used in the system for the total current required. The total is then multiplied by the total number of standby hours required to arrive at the total Ampere-hours required.

INSTALLATION

6.7 XT30INT Standby Battery Calculations

Standby Battery Power Calculations			Alarm Current		
XT30INT International Panel	x	205mA _____ mA			205mA _____ mA
Built-in Network (additional current)	x	145mA _____			145mA _____
Active Zones 1-9	x	1.6mA _____			*2mA _____
Active Zone 10	x	4mA _____	Qty _____ x		30mA _____
2-Wire Smoke Detectors	x	0.1mA _____	Qty _____ x		0.1mA _____
Panel Bell Output			Qty _____ x		Max. _____
			1500mA x		
263HINT HSPA+ Cellular Communicator	x	24mA _____	Qty _____ x		28mA _____
1100DINT International Wireless Receiver	x	40mA _____	Qty _____ x		40mA _____
860 Relay Output Module (one relay active)	x	34mA _____	Qty _____ x		34mA _____
All four relays active		138mA _____			138mA _____
7060-WINT/7063-WINT International Thinline Keypad	x	72mA _____	Qty _____ x		87mA _____
7073-WINT International Thinline Keypad Active Zones (EOL Installed)	x	85mA _____ 1.6mA _____			
7872-WINT Graphic Touchscreen Keypad Active Zones (EOL Installed)	x	145mA _____ 1.6mA _____	Qty _____ x		215mA _____
			Qty _____ x		2.0mA _____
7873-WINT Graphic Touchscreen Keypad Active Zones (EOL Installed)	x	143mA _____ 1.6mA _____	Qty _____ x		243mA _____
	x		Qty _____ x		*2mA _____
712-8INT Zone Expansion Module Active Zones (EOL Installed)	x	17mA _____ 1.6mA _____	Qty _____ x		17mA _____
	x		Qty _____ x		*2mA _____
714-8INT, 714-16INT Zone Expansion Module Active Zones (EOL Installed)	x	20mA _____ 1.6mA _____	Qty _____ x		20mA _____
	x		Qty _____ x		1.6mA _____
734INT Wiegand Interface Module Active Zones (EOL Installed)	x	15mA _____ 1.6mA _____	Qty _____ x		15mA _____
			Qty _____ x		*2mA _____
Aux. Powered Devices on Terminals 7 and 11 Other than Keypads and Modules	x	_____ mA			_____ mA
Total Standby _____ mA			Total Alarm _____ mA		
Total Standby _____ mA x number of Standby Hours _____ = _____ mA-hours					
needed _____ mA			_____ mA-hours		
Total Alarm + _____ mA-hours					
			Total X .001		
* Based on 10% of active zones in alarm condition.			= _____ Amp-hrs Required		

Bell Output

7.1 Terminals 5 and 6

Nominal 12 VDC is supplied by terminal 5 on the panel to power alarm bells or horns. The output is rated for a maximum of 1.5 Amps with a 40 VA transformer. This output can be steady, pulsed, or Temporal Code 3 depending upon the Bell Action specified in Bell Options programming. Terminal 6 is the ground reference for the bell circuit. If using a horn or siren, a 1k 0hm resister should be added across the bell circuit for supervision.

Keypad Data Bus

8.1 Description

Terminals 7, 8, 9, and 10 of the panel are designated as the keypad data bus. In addition to keypads, the XT30INT International allows the connection of any combination of zone expansion modules, Glassbreak Detectors, and PIRs to the keypad bus up to the maximum of eight devices.

8.2 Terminal 7 - RED

Nominal 12 VDC is supplied at terminal 7 to power keypads and zone expanders. This is also where power for any auxiliary device is supplied. The ground reference for terminal 7 is terminal 10. The maximum output is rated at 500mA. All auxiliary devices totaled together must not exceed the Terminal 7 maximum current rating of 500mA. When the number of keypads or other expansion devices attached exceeds the amount of output current available, attach an external power supply as defined in the Model 710 Installation Sheet (LT-0310).

8.3 Terminal 8 - YELLOW

Data receive from keypads and zone expanders.

8.4 Terminal 9 - GREEN

Data transmit to keypads and zone expanders.

8.5 Terminal 10 - BLACK

Terminal 10 is the ground reference for LCD keypads, zone expanders, and any auxiliary devices being powered by terminals 7 and 11.

8.6 Keypad Bus LEDs

The two LEDs located just above terminal 13 indicate keypad transmit data (XMIT) and keypad receive data (RCV). The bottom LED flashes green to indicate data being transmitted from the panel. The top LED flashes yellow to indicate data being received by the panel from keypads, zone expanders, etc.

8.7 Programming Connection

A locking 4-pin PROG header is provided to connect a keypad when using a DMP Model 330 Programming Cable. This provides a quick and easy connection for programming the panel.

8.8 Keypad Addressing

Keypad Bus expansion zones are numbered in groups of four corresponding to the address. Example: address 1 is zones 11-14 and address 5 is zones 51-54. There are a maximum of 32 zones possible on the Keypad Bus. All keypad zones terminate with a 1k 0hm EOL resister.

Address	XT30INT International Zone Number
1	11-14
2	21-24
3	31-34
4	41-44
5	51-54
6	61-64
7	71-74
8	81-84

8.9 Overcurrent OVC LED

The Overcurrent LED (OVC) lights Red when the devices connected to the Keypad Bus draw more current than the auxiliary output rating. The OVC LED is located above terminals 9 and 10 as shown in Figure 4. When the OVC LED lights Red, the Keypad bus/auxiliary power (terminal 7) and the PROG header shut down.

Smoke and Glassbreak Detector Output

9.1 Terminal 11

Nominal 12VDC at 100mA maximum (shared by terminal 25) is supplied at terminal 11 to power 4-wire smoke detectors or other auxiliary powered devices. This output can be turned off by the user for 5 seconds using the Sensor Reset option in the User Menu. Terminal 10 is the ground reference for terminal 11.

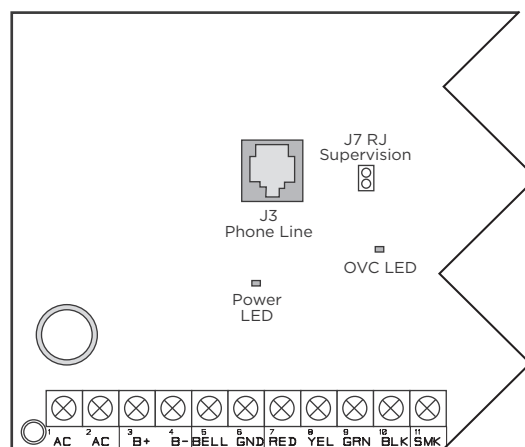


Figure 5: OVC LED location

Burglary Zones

10.1 Description

On XT30INT panels, terminals 12 to 24 are the nine burglary zones. For programming purposes, the zone numbers are 1 to 9. The zone configurations on terminals 12 to 24 are described below.

Terminal	Function	Terminal	Function
12	Zone 1 voltage sensing	19	Ground for zones 5 & 6
13	Ground for zones 1 & 2	20	Zone 6 voltage sensing
14	Zone 2 voltage sensing	21	Zone 7 voltage sensing
15	Zone 3 voltage sensing	22	Ground for zones 7, 8, & 9
16	Ground for zones 3 & 4	23	Zone 8 voltage sensing
17	Zone 4 voltage sensing	24	Zone 9 voltage sensing
18	Zone 5 voltage sensing		

The voltage sensing terminal measures the voltage across the 1k Ohm End-of-Line resistor and the zone's ground terminal. Dry contact sensing devices can be used in series (normally-closed) or in parallel (normally-open) with any of the burglary protection zones.

10.2 Operational Parameters

Each burglary protection zone detects four conditions: tamper, open, normal, and short.

The parameters for each are listed below:

Condition	Resistance on Zone	Voltage on Zone Terminal
Tamper	over 2.43k ohms	> 2.9 VDC
Open	1430 Ohms to 2,430 Ohms	2 - 2.9 VDC
Normal	215 to 1430 Ohms	1.2 to 2.0 VDC
Short	under 215 Ohms	under 1.2 VDC

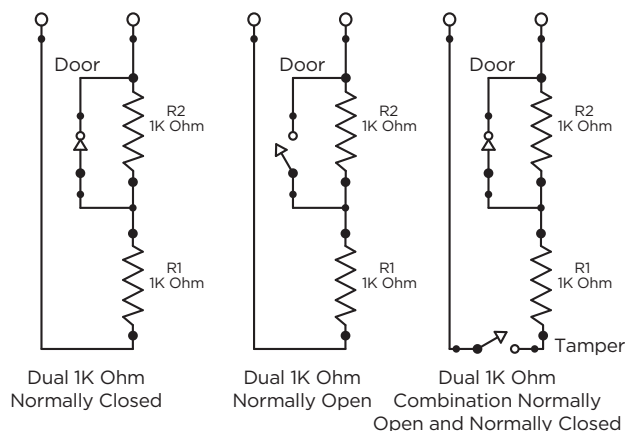


Figure 6: Protection Zone Contact Wiring

10.3 Zone Response Time

A condition must be present on a zone for 500 milliseconds before it is detected by the panel. Ensure detection devices used on the protection zones are rated for use with this delay.

10.4 Keyswitch Arming Zone

You can use a momentary keyswitch on a zone programmed as an Arming type for use in arming and disarming the system without a code.

Powered Zone for 2-Wire Smoke Detectors

11.1 Terminals 25 and 26

A resettable 2-wire Class B powered zone is provided on terminals 25 (positive) and 26 (negative) of the panel. For programming purposes, the zone number is 10 on the XT30INT International. The zone uses a Model 309, 3.3k Ohm EOL resistor (provided with the panel) and has an operating range of 8.8 to 13.9 VDC.

The compatibility identifier is: B

Caution: Sensor reset on zone 10 drops power to devices on this zone, causing the panel to sense an open condition on all zone types other than Fire, Fire Verify, and Supervisory. Whenever non-Fire and non-Supervisory zone types are used on zone 10, make the appropriate adjustments to the zone's Armed Action to prevent false alarms from occurring.

Annunciator Outputs

12.1 Description

The four annunciator outputs can be programmed to indicate the activity of the panel's zones or conditions occurring on the system. Annunciator outputs do not provide a voltage but instead switch-to-ground voltage from another source. The outputs can respond to any of the conditions listed below:

- | | |
|--|--------------------------|
| 1) Activation by zone condition: Steady, Pulse, Momentary, or Follower | 6) Ambush alarm |
| 2) Manually from the keypad | 7) Exit and Entry timers |
| 3) Communication failure | 8) System Ready |
| 4) Armed area annunciation | 9) Late to Close |
| 5) Fire Alarm or Fire Trouble | |

12.2 Harness Wiring

The open collector outputs are accessible by installing the DMP 300 Harness on the 4-pin OUTPUTS header. The output locations are shown below. For listed applications, devices connected to outputs must be located within the same room as the panel.

Output	Color	Wire	Output	Color	Wire
1	Red	1	3	Green	3
2	Yellow	2	4	Black	4

12.3 Model 860 Relay Module

Connect a Model 860 Relay Module to the panel to provide relays for the annunciator outputs that can be used for electrical isolation between the alarm panel and other systems or for switching voltage to control various functions. The module includes one relay and provides three additional sockets for expansion of up to four relays. Power is supplied to the relay coils from the panel keypad bus. The 860 mounts inside the panel enclosure using the 3-hole mounting configuration. Plastic standoffs are provided with the module for ease of installation. A 4-wire harness is also provided that connects the Model 860 to the panel.

Relay Contact Rating: 1 Amp at 30 VDC

PHONE LINE RJ Connector

13.1 Description

Connect the panel to the public telephone network by installing a DMP 356 RJ Cable between the panel's PHONE LINE connector and the RJ31X or RJ38X phone jack.

A two pin RJ SUP header is provided to allow monitoring of the telephone cable connected between the panel and a RJ38X jack (pins 2 and 7 jumpered). Attach a DMP Model 306 Harness between RJ SUP and any available zone. The RJ SUP pins are connected via the telephone cable to the RJ38X jack pins 2 and 7. The RJ38X jack provides a jumper between pins 2 and 7 which completes the circuit. Program the zone as a Supervisory type (SV). When the telephone cable is removed, the keypad displays zone trouble and produces a steady tone.

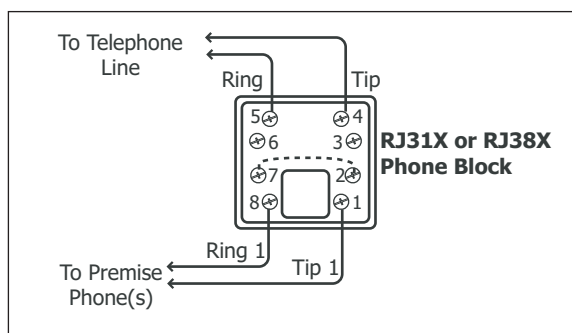


Figure 7: Phone Jack Wiring

ETHERNET Connector

14.1 Description

The ETHERNET Connector is available on the Network version and connects directly to an Ethernet network using a standard patch cable.

14.2 ETHERNET LEDs

The two LEDs, located on the left side of the ETHERNET Connector, indicate network operation. The top, Link LED is a steady green light when an ethernet cable is connected. The bottom, Activity LED flashes yellow to indicate messages are being received or transmitted.

RESET Header

15.1 Description

The RESET header is located just above the terminal strip on the right side of the circuit board and is used to reset the XT30INT Series International microprocessor. To reset the panel when first installing the system, install the reset jumper before applying power to the panel. After connecting the AC and battery, remove the reset jumper.

To reset the panel while the system is operational, for example, prior to reprogramming, install the reset jumper without powering down the system. Remove the reset jumper after one or two seconds.

After resetting the panel, begin programming within 30 minutes. If you wait longer than 30 minutes, reset the panel again.

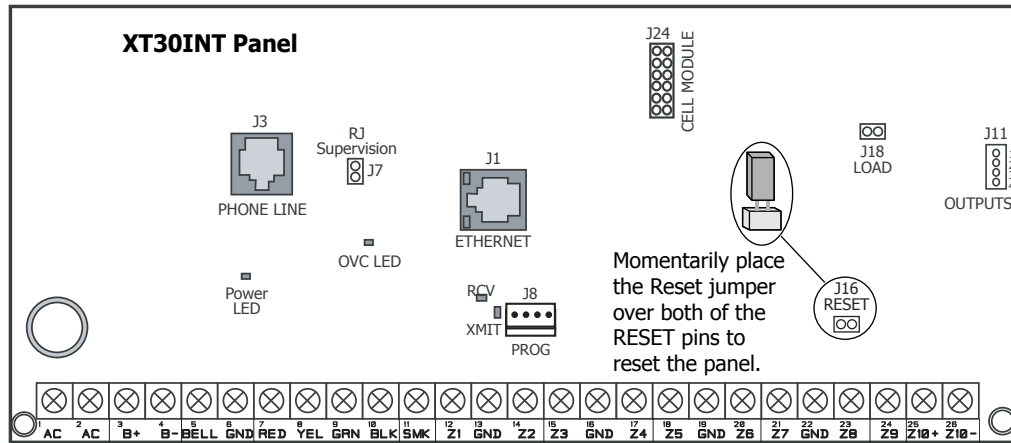


Figure 8: Panel Showing the RESET Header

Flash LOAD Jumper

16.1 Description

The XT30INT Series panel software can be updated via the panel's programming (PROG) header. To update the panel with a new software version, complete the following steps at the protected premise:

1. Place a jumper across the RESET header and then remove the yellow and green wires from keypad bus terminals 8 and 9.
2. Connect a DMP 399 Cable from the PROG Header to the serial port of your PC operating Remote Link and containing the XT RU file. Requires Remote Link 1.43 or higher.
3. Start Remote Link and create or open the XT Series control panel account that matches the panel to be updated.
4. Set the Connection Information Type to Direct with a baud rate of 38400 and choose the appropriate COM port.
5. Select Panel>Remote Update, then select the correct RU file for the XT panel model.
6. While placing a short across the LOAD header, remove the jumper from the RESET header. Click <Update> in Remote Link.
7. After the software version is updated, remove the short from the LOAD header. Place the jumper across RESET then remove the 399 cable.
8. Replace the yellow and green wires to terminals 8 and 9.
9. Remove RESET jumper to resume normal panel operation.

Cellular Connections

17.1 Cellular

The CELL MODULE header is provided to connect a 263HINT HSPA+ Cellular Communicator. The cellular antenna connection protrudes through the top of the enclosure.

Note: DO NOT MISALIGN THE CELL MODULE 12 PIN CONNECTOR ONTO CELL MODULE HEADER. If needed, the PCB can be removed from the enclosure to allow placement of the cell module.

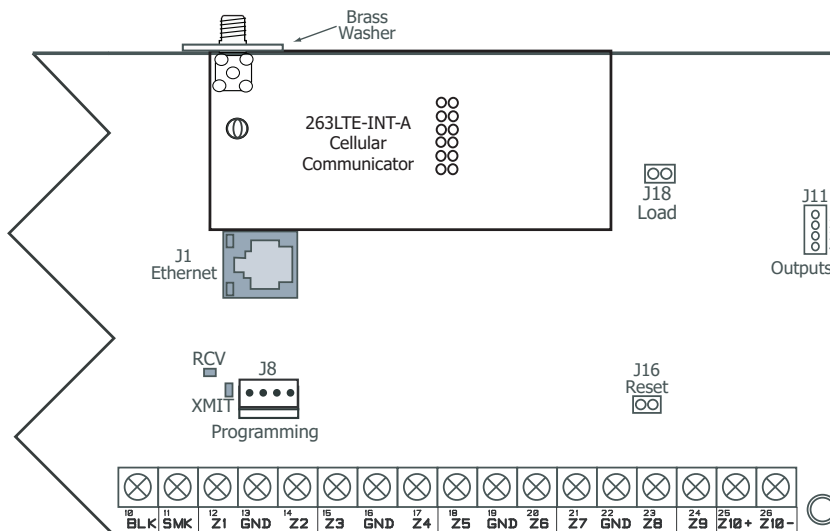


Figure 9: Cellular Antenna Connections

Troubleshooting

18.1 Troubleshooting Section

This section provides troubleshooting information for use when installing or servicing an XT30INT system.

Problem	Possible Cause	Possible Solutions
Keypad displays "SYSTEM TROUBLE"	RESET Jumper is installed.	Remove the RESET jumper.
	Open or short on the green data wire to the keypad.	Check for broken or shorted wires between the panel and the keypad.
	Bad keypad or zone expander is affecting the Green data wire.	Replace keypad or zone expander.
Keypad keyboard is not functional. When a key is pressed, only a short beep is emitted.	Open or short on the yellow data wire to the keypad.	Check for broken or shorted wires between the panel and the keypad.
	Bad keypad or zone expander. is affecting the Yellow data wire.	Replace keypad or zone expander.
Keypad XMIT Green LED is off	Panel is reset.	Remove RESET jumper.
	Flash Load enabled.	Remove LOAD jumper and reset panel.
Keypad RCV Yellow LED is off	Keypad/expanders are not connected to panel.	Connect keypad/expanders.
	Keypad/expanders are greater than five.	Check keypad/expanders address.
Keypad beeps when keys are pressed, but will not allow the user to arm or disarm, or enter the User Menu.	Two or more keypads are assigned to the same address.	Set each keypad on the system to a unique address.
Power LED is off.	AC/Battery is not connected.	Connect AC power and/or battery.
Overcurrent OVC LED turns Red	Too many devices attached to auxiliary.	Maximum current draw is 500 mA.
Wireless Green TX LED is off.	Wireless House Code is not programmed.	Program House Code in System Options.
Keypad operates intermittently, keystrokes may be missed, or display does not update consistently.	Wire length may exceed maximum, resulting in poor data performance.	Wire length can be reduced or a heavier gauge used.
		A power supply can be added near the keypad. See LT-2031, LX-Bus/Keypad Bus Wiring Application Note for more information.

18.2 Common LCD Keypad Displays

Listed below are several keypad messages you may see on the display. Follow the instructions in the Possible Solutions column to correct the problem.

Message	Meaning	Possible Solutions
INVALID CODE	The user code entered is not recognized by the system.	Check the user code and try again.
CLOSING TIME	The system was not armed at its scheduled closing time.	Users still on the premise should arm the system or extend the schedule to a later time.
AC TROUBLE	The system AC is low or missing.	Check that the AC connections are good from the transformer.
BATTERY TROUBLE	The System battery is either low or missing.	Check to see that battery and connections are good.
SYSTEM BUSY	The system is performing another task with a higher priority or is being Remote Programmed.	Wait a few moments for the system to complete the task. Make sure the RESET jumper is not on the panel. If the message displays for several minutes, the keypad is not receiving polling from the panel.
TRANSMIT FAIL	The panel has attempted to communicate with the central station multiple times and has not succeeded.	Verify your communication type, account number, and phone number. Make sure the telephone line is connected and working properly.

International Certifications

Intertek (ETL) Listed

EN 50130-4:2011+A1:2014

Alarm systems. Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems.

EN 50130-5:2011

Alarm systems. Environmental test methods.

EN 50131-1:2006+A1:2009

Alarm systems. Intrusion and hold-up systems. System requirements.

EN 50131-3:2009

Alarm systems. Intrusion and hold-up systems. Control and indicating equipment.

EN 50131-5-3:2005+A1:2008

Alarm systems. Intrusion systems. Requirements for interconnections equipment using radio frequency techniques.

EN 50131-6:2008

Alarm systems. Intrusion systems. Power supplies.

EN 50136-1:2012

Alarm systems. Alarm transmission systems and equipment. General requirements for alarm transmission systems.

EN 50136-2:2013

Alarm systems. Alarm transmission systems and equipment. Requirements for Supervised Premises Transceiver. (SPT)

EN 61000-3-2:2006+A1+A2

Electromagnetic compatibility (EMC) – Part 3 - 2: Limits – Limits for harmonic current emissions.

EN 61000-3-3:2013

Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.

EN 61000-6-4:2007

Emission standard for industrial environments.



Intertek

Specifications

Security Grade	2
Notification Requirements	Grade 2, Option A, B, or C
Environmental Class	II
Power Supply	Type A
Operating Temperature	0°C - 49°C 32°F - 120°F
Relative Humidity	80%
Weight	2.32 kg (5.12 lbs)
Dimensions	24.13 W x 10.5H (cm)
Max Ripple Voltage	50 mV



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