717 GRAPHIC ANNUNCIATOR MODULE
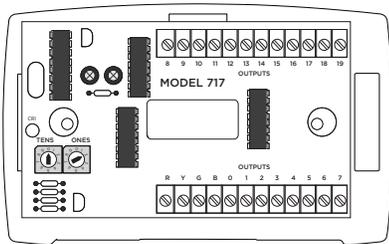
Installation Guide

Figure 1: 717 Module

DESCRIPTION

The 717 Graphic Annunciator Module provides 20 open collector annunciator outputs that follow the armed and bypassed state of assigned panel zones and is programmable by setting the address. The module connects to the panel 4-wire LX-Bus and is addressed using two on-board rotary switches. Install multiple 717 modules on the LX-Bus to achieve a variety of remote annunciation and control applications.

Compatibility

- XR150/XR550 Series panels

What is Included?

- One 717 Graphic Annunciator Module
- Hardware Pack

1 MOUNT THE MODULE

The 717 comes in a high-impact plastic housing that you can mount directly to a wall, backboard, or other flat surface. For easy installation, the back of the housing contains multiple holes that allow you to mount the module on a single-gang switch box or ring. The module can also be mounted in a DMP enclosure using the standard 3-hole mounting pattern. Refer to Figure 2 and Figure 3 as needed during installation.

1. Hold the plastic standoffs against the inside of the enclosure side wall.

2. Insert the included Phillips head screws from the outside of the enclosure into the standoffs. Tighten the screws.

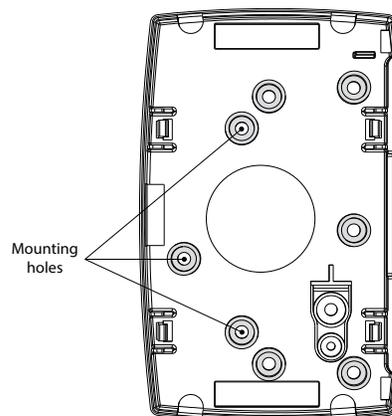3. Carefully snap the module onto the standoffs.

Mounting holes

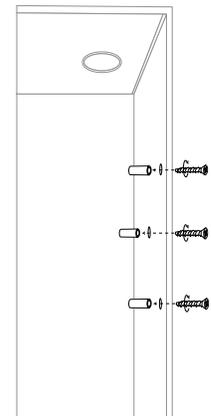**Figure 2: Mounting Hole Locations**

Figure 3: Standoff Installation

2 WIRE THE MODULE

The 717 module provides two screw type terminal blocks for connecting LX-Bus wiring and the wiring from annunciation or control circuits. Refer to Figure 4 when wiring the module.

Connect red, green, and black wires to the panel LX-Bus. For supervised operation, connect the yellow wire to the panel LX-Bus. Connect remaining wires as needed. For more information, refer to "Unsupervised Operation" and "Supervised Operation".

Note: The 717 module cannot be installed on the Keypad Bus.

Connect annunciator or control wiring to outputs 8-19

Optional LED wiring 50 mA @ 50 VDC max

Data LED

CR1

MODEL 717

TENS   ONES

Address Switches

OUTPUTS
8 9 10 11 12 13 14 15 16 17 18 19
OUTPUTS

Connect annunciator or control wiring to outputs 0-7

OUTPUTS
R Y G B 0 1 2 3 4 5 6 7

Red
Yellow
Green
Black

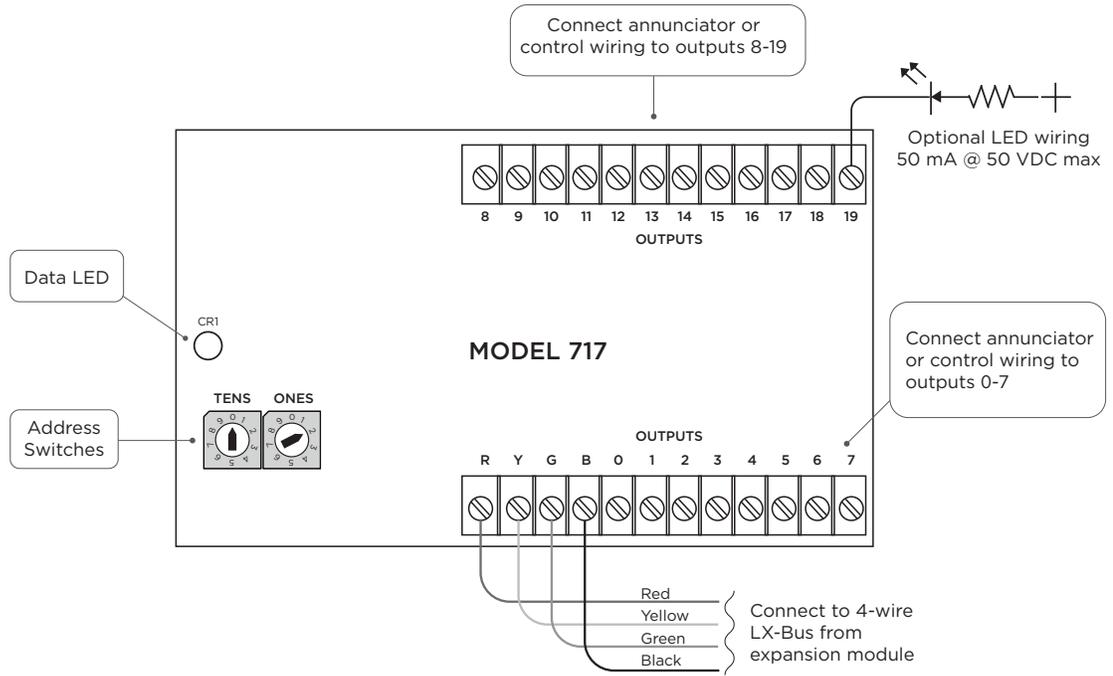Connect to 4-wire LX-Bus from expansion module

Figure 4: Wiring Diagram

3 SET THE MODULE ADDRESS

Set the 717 Module to an address that is used by the panel to turn outputs on and off. For easy addressing, the module contains two on-board rotary switches that you can set with a small screwdriver.

Set the module to one of five addresses to designate the specific zones for the annunciator outputs to follow. As shown in Table 1, each module address accommodates a specific range of 20 LX-Bus zone numbers.

| SWITCH | | XR150 SERIES | XR550 SERIES | | | | |
TENS	ONES	LX500	LX500	LX600	LX700	LX800	LX900
0	0	500-519	500-519	600-619	700-719	800-819	900-919
2	0	520-539	520-539	620-639	720-739	820-839	920-939
4	0	540-559	540-559	640-659	740-759	840-859	940-959
6	0	560-579	560-579	660-679	760-779	860-879	960-979
8	0	580-599	580-599	680-699	780-799	880-899	980-999

Table 1: LX-Bus and Corresponding Zone Numbers

ADDITIONAL INFORMATION

Wiring Specifications

DMP recommends using 18 or 22 AWG for all LX-Bus and Keypad Bus connections. The maximum wire distance between any module and the DMP Keypad Bus or LX-Bus circuit is 1,000 feet. To increase the wiring distance, install an auxiliary power supply, such as a DMP Model 505-12. Maximum voltage drop between a 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.

To maintain auxiliary power integrity when using 22-gauge wire on Keypad Bus circuits, do not exceed 500 feet. When using 18-gauge wire, do not exceed 1,000 feet. Maximum distance for any bus circuit is 2,500 feet regardless of wire gauge. Each 2,500 foot bus circuit supports a maximum of 40 LX-Bus devices.

For additional information refer to the LX-Bus/Keypad Bus Wiring Application Note (LT-2031) and the 710 Bus Splitter/ Repeater Module Installation Guide (LT-0310).

Panel Zone and Keypad Bus Zone Annunciation

When the module is connected to LX-Bus 1, the addresses in Table 2 and Table 3 allow the annunciator outputs to follow the armed activity of the panel and Keypad Bus zones using the annunciator output terminal number.

Note: The 717 follows the first eight panel zones, Keypad Bus zones 11 to 44 or Keypad Bus zones 51 to 84. To follow Keypad Bus zones 91 to 164 on an XR150/XR550 Series panel, install multiple 716 modules. For more information, refer to the 716 Output Expansion Module Installation Guide (LT-0183).

ADDRESS 01		ADDRESS 11						ADDRESS 51					
Zone	Terminal	Zone	Terminal	Zone	Terminal	Zone	Terminal	Zone	Terminal	Zone	Terminal	Zone	Terminal
1 to 10	0 to 9	11	0	23	6	41	12	51	0	63	6	81	12
		12	1	24	7	42	13	52	1	64	7	82	13
		13	2	31	8	43	14	53	2	71	8	83	14
—	—	14	3	32	9	44	15	54	3	72	9	84	15
—	—	21	4	33	10	—	—	61	4	73	10	—	—
—	—	22	5	34	11	—	—	62	5	74	11	—	—

Table 2: 717 Addresses for XR150/XR550 Series Panels and Keypad Bus Zones

Supervised Operation

To install the module as a supervised device, connect all four LX-Bus wires from the module to the panel LX-Bus and program an appropriate zone as a Supervisory (**SV**) type. The module may use any address for supervision, provided that a Supervisory zone is programmed for that address. For example, if a supervised module loses communication with the panel, an open condition (Trouble) is indicated on its Supervisory zone.

When installing Zone Expander modules on the same LX-Bus as a supervised module, start their address at the next zone number. For example, a module set to address 20 uses zone 520 for supervision. A zone expander on the same bus would be set to address 21 to start at zone 521 for an XR150/XR550 Series panel. Refer to Table 3.

717 ADDRESS	00	01	11	20	40	51	60	80
XR550 SUPERVISORY ZONES	500	501	511	520	540	551	560	580
	600	N/A	N/A	620	640	N/A	660	680
	700	N/A	N/A	720	740	N/A	760	780
	800	N/A	N/A	820	840	N/A	860	880
	900	N/A	N/A	920	940	N/A	960	980

Table 3: 717 Addresses and Supervisory Zones

Unsupervised Operation

To operate the module in unsupervised mode, do not connect the yellow wire from the module to the panel LX-Bus. Unsupervised operation allows you to install multiple modules and set them to the same address. Do not program a zone address for unsupervised operation.

Changes in Armed Zone States

The module's 20 power limited annunciator outputs follow the armed state of their respective zones in normal, open, and shorted conditions. Refer to Table 4.

For example on an XR150/XR550 Series panel, annunciator output Terminal 1 on a module set to address 00 shorts to ground each time zone 501 is in trouble. If the zone is wireless, Terminal 1 shorts to ground when the wireless point has a low battery or is missing. This feature allows the panel to operate control relays, or to light lamps or LEDs, to indicate changes in the state of specific zones.

ARMED ZONE STATE	717 ANNUNCIATOR OUTPUT ACTION
Normal	Off—No ground reference
Trouble, wireless low battery, missing	On—Steady short to ground
"A" or "L" in Report to Transmit	Pulse (1.6 seconds On, 1.6 seconds Off)
Zone Bypassed	Slow pulse (1.6 seconds On, 4.8 seconds Off)

Table 4: Annunciator Outputs

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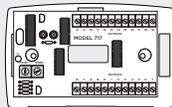## Specifications

Operating Voltage	8.8 VDC to 15.0 VDC
Operating Current	10 mA + 1 mA per active output
Switched Ground Rating	50 mA at 30 VDC Max. each output
Enclosure Dimensions	4.50" W x 2.75" H x 1.75" D

Ordering Information

717	Graphic Annunciator Module
Accessories	
300	4-Wire Harness

Compatibility

XR150/XR550 Series Panels

Certifications

California State Fire Marshal (CSFM)

New York City (FDNY COA #6167)

Underwriters Laboratory (UL) Listed

ANSI/UL 365	Police Connected Burglar
ANSI/UL 464	Audible Signal Appliances
ANSI/UL 609	Local Burglar
ANSI/UL 864	Fire Protective Signaling
ANSI/UL 985	Household Fire Warning
ANSI/UL 1023	Household Burglar
ANSI/UL 1076	Proprietary Burglar