

717 Graphic Annunciator 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 717 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.

NOTE: The 717 Graphic Annunciator Module is designed to follow and annunciate specific zones based on the modules address. Please see **Addressing the 717 Module** section for specific range of zones the 717 module will follow.

Installation

The 717 Graphic Annunciator Module is mounted in a rugged, decorative plastic housing suitable for installing outside the panel enclosure on walls or on single gang boxes.

Wiring the 717 Module

You can connect the 717 anywhere along the length of the LX-Bus. This allows you to install the module at a graphic annunciator or control equipment. The 717 module provides two screw type terminal blocks for connecting the LX-Bus wiring and the wiring from annunciation or control circuits. Each terminal's function is clearly labeled on the 717 circuit board below its terminal. Refer to Figure 1 for terminal descriptions.

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

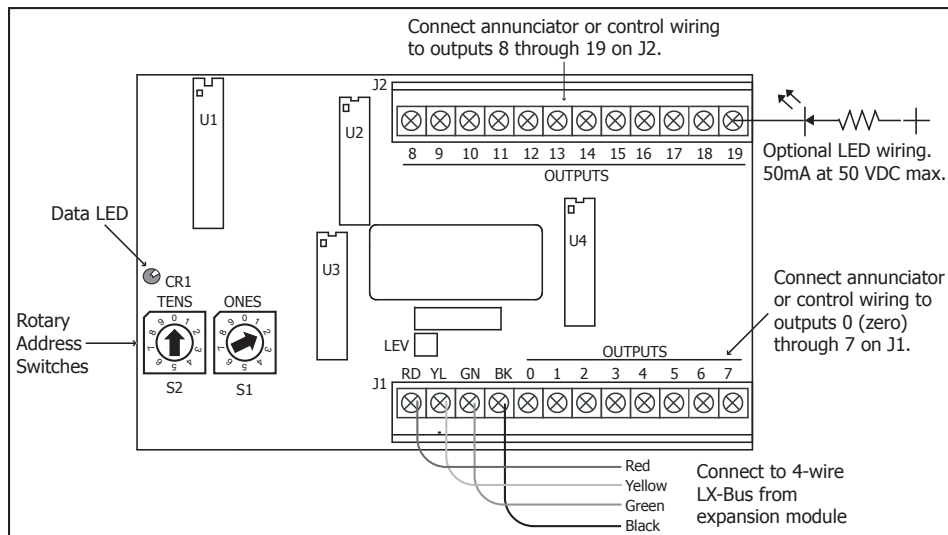


Figure 1: 717 Wiring Diagram

Setting the Rotary Switches

The 717 provides two rotary switches labeled **ONES** and **TENS** that you use to set the module address.

To set the address, use a small slotted screwdriver and gently turn the center arrow to the number that matches the address you want. For LX-Bus addresses, set the switches according to the last two digits. See Figure 2 for an example. Refer to the following sections for address specifications.

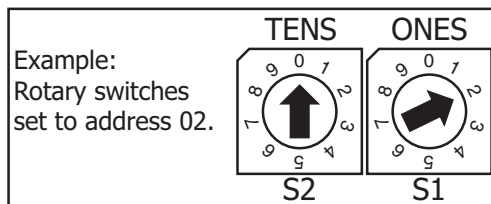


Figure 2: 717 Rotary Switch Settings

Addressing the 717 Module

LX-Bus Zone Annunciation

Set the 717 to one of five addresses to designate the specific zones for the annunciator outputs to follow. As shown in Table 1, each 717 address accommodates a specific range of 20 LX-Bus zone numbers.

Start Address		Panel LX-Bus Zone Range				
		XR100/XR150 (LX500), XR350 (LX500 - LX700), XR500/XR550 (LX500-LX900) Series				
Switch Tens	Ones	LX-Bus 1 (LX500)	LX-Bus 2 (LX600)	LX-Bus 3 (LX700)	LX-Bus 4 (LX800)	LX-Bus 5 (LX900)
0	0	500-519	600-619	700-719	800-819	900-919
2	0	520-539	620-639	720-739	820-839	920-939
4	0	540-559	640-659	740-759	840-859	940-959
6	0	560-579	660-679	760-779	860-879	960-979
8	0	580-599	680-699	780-799	880-899	980-999

Table 1: 717 Addresses for LX-Bus Zones

Panel Zone and Keypad Bus Zone Annunciation

When the Model 717 is connected to LX-Bus 1, the addresses shown in Tables 2 and 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 XR100/XR500 or XR150/XR350/XR550 Series panel, install multiple 716 modules. 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	0	11	0	23	6	41	12	51	0	63	6	81	12
to	to	12	1	24	7	42	13	52	1	64	7	82	13
10	9	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 XR100/XR500 or XR150/XR350/XR550 Series Panels and Keypad Bus Zones

Supervised Operation

You can install the 717 as a supervised device by connecting the data bus wires to the module and programming an appropriate zone as a **Supervisory** type.

If a supervised 717 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 717 module, start *their* address at the next zone number. For example, a 717 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 XR100/XR500 Series or XR150/XR350/XR550 Series panel. See Table 3.

717 Address	00	01	11	20	40	51	60	80
XR500 and XR550 Supervisory Zone	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: Supervisory Zones and 717 Addresses

Non-Supervised Operation

Non-supervised operation allows you to install multiple 717 modules and set them to the same address. You do not need to program a zone address for non-supervised operation. For a non-supervised 717, connect only the **Red**, **Black**, and **Green** wires from the LX-Bus to the module.

Changes in Armed Zone States

The 20 power limited annunciator outputs on the 717 module follow the armed state of their respective zones in normal, open, and shorted conditions. See Table 4.

For example on an XR100/XR500 Series panel, annunciator output terminal #1 on a 717 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.


Panel 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: 717 Annunciator Outputs Action

Wiring Specifications for Keypad or LX-Bus

1. DMP recommends using 18 or 22-gauge **unshielded** wire for all keypad and LX-Bus circuits. **Do not** use twisted pair or shielded wire for LX-Bus and keypad bus data circuits. All 22-gauge wire must be connected to a power-limited circuit and jacket wrapped.
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 that is UL listed for Fire Protective Signaling, power limited, and regulated (12 VDC nominal) with battery backup.
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. Maximum number of LX-Bus devices per 2,500 feet circuit is 40.
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 to the circuit. When voltage is too low, the devices cannot operate properly.

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

<p>Specifications</p> <p>Operating Voltage 8.8 to 15.0 VDC Operating Current 10mA + 1mA per active output Switched Ground Rating 50mA at 30 VDC Max. each output Enclosure Dimensions 4.5" x 2.75" x 1.75"</p> <p>Panel Compatibility XR100/XR500 Series Panels XR150/XR350/XR550 Series Panels</p>	<p>Certifications</p> <p>California State Fire Marshal (CSFM) New York City (FDNY COA #6167) 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</p>
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