

Model T8-LCU

Universal SLC Module

for FireSpy® Tracker Control Panels

SAFETY MESSAGE TO INSTALLERS

People's lives depend on your safe installation of our products. It is important to read, understand and follow all instructions shipped with this product. Listed below are some other important safety instructions and precautions you should follow.

- This unit must be installed and maintained by a qualified electrician in accordance with NFPA 72 and National and local Electrical and fire codes, under the direction of the authority having jurisdiction.
- Do not connect this unit to system wiring when circuits are energized.
- After installation and completion of initial system test, provide a copy of this instruction sheet to all personnel responsible for operation, periodic testing and maintenance of this equipment.
- Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death to you and others.

GENERAL

The T8-LCU analog addressable universal SLC module (LCU) connects to a FireSpy Tracker control panel's RS485 connection. Up to 4 LCU modules may be connected to a panel. Each LCU provides 2 Class A (Style 4) or Class B (Style 6 or 7) loops. Each LCU may be configured for one or more of following protocols: TSpY, ISpy, System Sensor, and/or Apollo (one device per address).

If the LCU loses connection with the panel, it enters a fail-safe mode. In this mode, devices on the SLCs are able to initiate alarm conditions. If equipped with optional terminal block TB5, four dry relay contacts may be used to indicate an alarm condition to auxiliary NAC equipment and a fault input supervises the auxiliary NAC equipment.

LCU modules may be mounted in the main enclosure or in UL864 listed remote enclosures.

INSTALLATION

Refer to the control panel installation manual for battery calculations and other additional requirements for installing the assembly in the fire panel system.

Mounting

The LCU mounts in a UL864 Listed enclosure. The installation location should be reasonably free of dust, vibration, and moisture. To avoid degradation of the operating circuitry, it is recommended that the circuit boards be removed during cabinet mounting, wire installation, and any other procedures that may introduce dust, metal shavings, grease or any other foreign matter into the area of the electronic circuitry.

1. To mount a single module, secure the module to four standoffs in the cabinet with screws.
2. To mount a second LCU above another, add four standoffs at the offset mounting positions through the bottom module and secure the upper module to these standoffs with screws. See Figure 2.

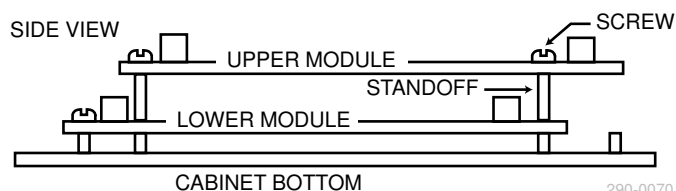


Figure 2: Mounting in stacked configuration

Specification	Rating
Listed	ETL, Standard UL864
Use / Environment	Commercial / Indoor, dry
Temperature range	32 to 120° F
Maximum relative humidity	95%
Input voltage	Regulated 24 DC
Input current draw	
Standby (no devices)	107mA
Alarm (full load)	??
Max impedance	
Power wiring (per side)	2 ohms
RS-485 wiring (total)	100 ohms
Loop protocols	ISpy, TSpY, Apollo, System Sensor**
Loop output voltage	25VDC
Loop output current	400mA max
Loop impedance (total per loop)	40 ohms max
Loop capacitance	0.5uF max
NAC fault supervision (option)	5V, 0.5mA max
Relays (optional feature)	
System type	Common alarm
Throw type	Form A (NO) / Form B (NC)*
Contact ratings (resistive, PF=1)	2A @ 30VDC 0.5A @ 125VAC

* Jumper configurable

Table 1: Specifications

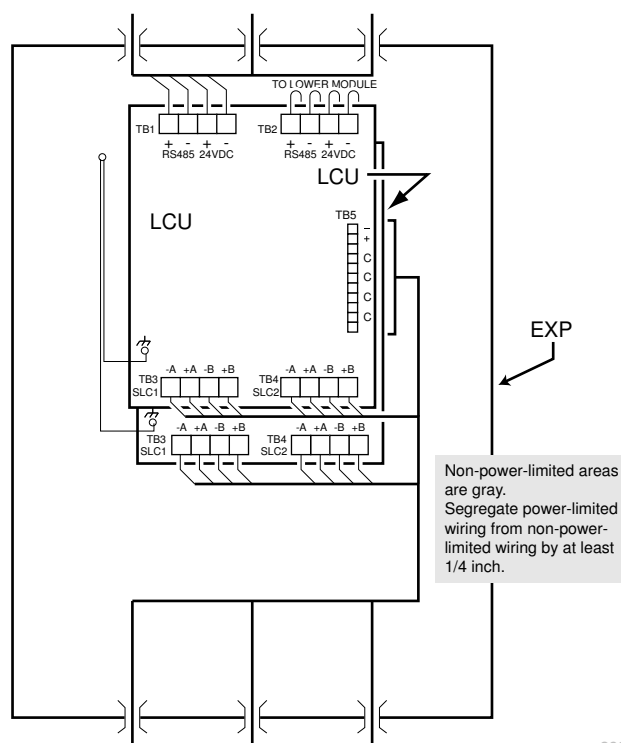


Figure 1: Wire routing in remote cabinet

3. Secure the ground wire to the backbox grounding stud with a nut.

Wiring

WARNING

To reduce the risk of electrical shock, make sure that all power has been turned off or disconnected prior to attempting to install wiring or connect power.

1. Connect module power supply wiring to the 24VDC supply circuit. Connect RS485 communication wiring to the panel's communication circuit. See *Figure 4*.
2. Set SW1 to set the module's address and the types of devices used on the SLCs (see *Table 2*).
3. If the module is the last device on the communication circuit, set both SW3 switches to ON. Otherwise, set both SW3 switches to OFF.
4. Connect SLC wiring (*Figure 4*). Configure J1 according to the wiring type on the SLCs. The two jumpers closest to SLC1 are for SLC1 and the two jumpers closest to SLC2 are for SLC2. For Class B, install the two jumpers; for Class A, remove the two jumpers.

OPERATION

Refer to the control panel documentation for operation and programming details.

ORDERING INFORMATION

Model	Stock No.
T8-LCU Analog addressable SLC module	T-LCU
T-EXP remote enclosure	T-EXP
T-EXPL remote enclosure, small	T-EXPL
Mounting hardware kit	T-KIT

SERVICE

To get help with problems or questions not covered in these instructions, contact:

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