ANN-I/O
LED Driver Module

General
The ANN-I/O is an LED driver module that can be used in a wide variety of applications including as an interface with the Fire Alarm Control Panel (FACP) to drive most customized graphic annunciators. It comes in a plastic enclosure that may be mounted inside a custom annunciator or accessory cabinet and can drive up to 40 LEDs.

The ANN-I/O and the FACP communicate over a two-wire serial interface employing the ANN-Bus communication format. Additional two wires are used for 24-volt DC power. A single four-conductor unshielded cable may be used for both power and data communications.

Up to eight ANN-Bus devices may be connected to the ANN-Bus of each FACP.

Features
• ANN-I/O connects to the ANN-Bus terminal on the FACP and requires minimal programming
• Each ANN-I/O module drives up to 40 LEDs
• Programmable to indicate activity for points or zones
• Compatible with the ES-50X, ES-200X, MS-9600(UUD)LS, MS-9200UDL, MS-9050UD, MRP-2001, MRP-2002, MS-5UD, and MS-10UD
• Can be remotely located up to 6,000 feet (1,829 m) from the panel
• May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC)
• Up to eight ANN-Bus devices may be connected to the ANN-Bus of each FACP

Specifications
• Maximum ANN-Bus Voltage: 24 VDC
• Maximum Current:
  – Alarm: 200 mA, Standby: 35 mA, Each LED: 10mA
• Maximum wiring distance from FACP: 6000 ft. (1829 m.)
• Ambient Temperature: 32°F to 120°F (0°C to 49°C)
• Relative Humidity: 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F)
• For use indoors in a dry location
• Connections to FACP are power-limited and supervised
• External measurements: 6.00” (15.2 cm.) high x 7.76” (19.7 cm.) wide x 1.46” (3.7 cm.) deep

Agency Listings and Approvals
The listings and approvals below apply to the ANN-I/O. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.
• UL: S2424
• CSFM: 7120-0075:0213
• MEA: 442-06-E

The ANN-Bus
POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY
ANN-Bus devices can be powered by an auxiliary power supply when available panel power is exceeded. See FACP manual for information.

ANN-BUS DEVICE ADDRESSING
Each ANN-Bus device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of eight devices can be connected to the FACP ANN-Bus communication circuit. See the FACP manual for more information.