



Features

- ▶ Microprocessor Controlled
- ▶ Low Power Consumption
- ▶ All Wiring Power Limited
- ▶ Space Saving Design
- ▶ Analog Addressable Signaling Line Circuit (SLC)
 - 126 Analog Addressable Devices
 - Style 4 or Style 6 SLC Wiring
 - Smoke Detector Alarm Verification
 - 4 Levels of Sensitivity
- ▶ Firefighter/Warden Telephone Circuits
 - Style Y or Style Z Telephone Circuits
 - Supports 2-Wire Warden Phones & Jacks
 - Active Zone Indicators

Description

The ALT-7 Analog Loop and Telephone Module combines one analog addressable Signaling Line Circuit (SLC) and four Firefighter/Warden Telephone circuits.

The SLC communicates with smoke detectors and other input and output modules over a twisted-pair wire. The SLC wiring can be configured as Style 4 (Class B) or Style 6 (Class A). Any combination of detectors and modules can be mixed on the SLC. Each detector is independently configurable to incorporate an alarm verification feature that reduces the number of "unwanted" alarms. Each detector may have a varying sensitivity setting that is based upon manual settings or changed in reaction to events or a time or weekly schedule.

The ALT-7 polls each analog addressable device and reports their Alarm, Trouble, or Normal status to the COM-2 Communications Card located in the DAB-7 Motherboard of the DAN-7 Cabinet. Device status is then transmitted over the riser network wires to the Fire Command Center (FCC) and other nodes in the system. Dirty detectors can be sensed and their status reported as a Trouble Maintenance condition. A 1.5A @ 24VDC auxiliary power output provides power for remote modules that require power in addition to the communications loop. Optional Degrade Mode programming allows input and output devices to continue to operate in the event of a failure of the microprocessor on the COM-2 card of the DAN-7.

Application

The ALT-7 is used to communicate to analog addressable smoke detectors and input/output modules, as well as to communicate with Firefighter Telephone Jacks and 2-wire Warden Phone Stations. Up to five phones can communicate at one time in the LSN 2000 system.

The Firefighter/Warden Telephone circuits can be configured as 4 Style Y (Class B) circuits or 2 Style Z (Class A) circuits. Each circuit can communicate with Firefighter Phone Jacks or up to three 2-wire Warden Stations. The telephone circuits are monitored and controlled by the COM-2 Communications card in the DAN-7. When a Firefighter's phone is plugged into a jack or a handset "calls-in", a call-in signal is transmitted to Fire Command Center (FCC). The operator pushes a switch on a Display Control Module at the FCC to establish a communication session between the telephone handset at the FCC and the "called-in" phone. The FCC operator can communicate with up to five simultaneous Firefighter/Warden phones. Call progress tones are presented through the phone handset. When a phone "calls-in", a ring-tone can be heard in the earpiece. If a call cannot be processed, a busy tone will be heard. Once the call is in progress, tones are removed. Activation indicators on the module indicate which circuits are in use and turned on. Upon command of the operator at the FCC, a Warden Phone or a handset plugged into a Firefighter Phone Jack can be enabled to page selected areas of the facility.

A ground fault on any circuit is automatically detected, and a technician-invoked ground fault isolation test helps in the identification of the circuit that is presenting the ground fault condition.

Installation

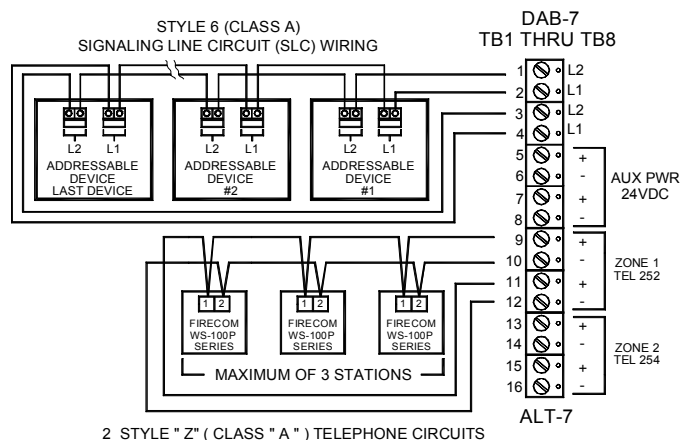
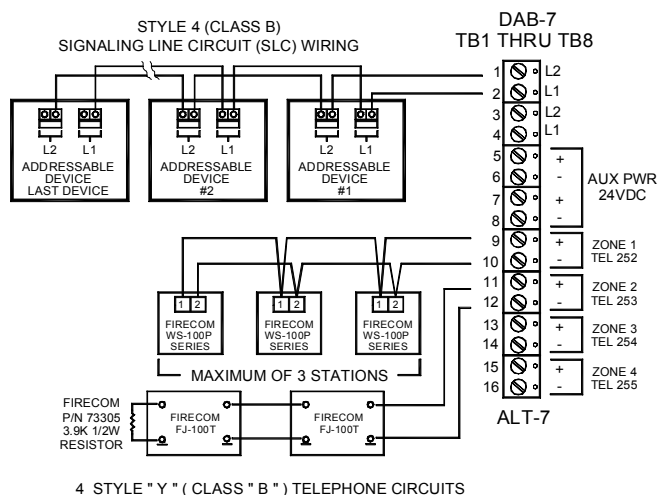
The ALT-7 Analog Loop and Telephone Module installs in any of the eight Option Slots in a DAB-7 Motherboard of a DAN-7 Cabinet. Each motherboard is software programmable to allow up to 8 ALT-7 option cards.



Engineering Specifications

The ALT-7 Analog Loop and Telephone Module shall contain one SLC capable of communicating to compatible Firecom Analog Addressable Devices (See Compatible Devices). The SLC shall communicate with up to 126 detectors and/or modules. Any combination of devices shall be allowed on the loop. The ALT-7 shall also contain 4 Style Y (Class B) or 2 Style Z (Class A) telephone circuits. The selection of Style Y or Style Z shall be field selectable. Each phone circuit shall be capable of communicating to Firefighter Phone Jacks or 2-wire Warden Stations with confirmation LED. A ring tone shall be generated on all activated circuits until communications with the Fire Command Center has been established. Indicators on the ALT-7 shall denote circuits with active communication links. The DAB-7 Motherboard of a DAN-7 shall allow up to eight ALT-7 modules to be installed into its option slots.

Wiring Connection



Electrical Specifications

Operating Voltage	24VDC
Operating Current	80mA
Aux Power	24VDC @ 1.5A
SLC Max Loop Current	135mA
Tel Zone Voltage	12.24VDC
Tel Zone Supv Current	3mA
Tel Zone Alarm Current	25mA
SLC or Tel Max Loop Capacitance	0.8 Microfarads
SLC or Tel Max Loop Resistance	25 Ohms
Operating Temperature	0°C to 49°C
Operating Relative Humidity Range	0% to 93% @ 32°C

Ordering Information

Model No.	Part No.	Description
ALT-7	73275	Analog Loop & Telephone Module

Compatible Devices

Model No.	Part No.	Description
F900-450	75004	Heat Detector
F900-550	75003	Ion Detector
F900-650	75002	Photoelectric Detector
F900-886	75059	Multi-Sensor Detector
F900-AA-P	75010	Photo Duct Detector
F900-AA-N	75041	Ion Duct Detector
F900-AR-P	75010	Photo Duct Detector w/Relay
F900-AR-N	75041	Ion Duct Detector w/Relay
F900-750	75000	Isolator
F900-790	72044	Dual Input Monitor Module
F900-805	70499	Switch Monitor Module
F900-806	70500	Priority Switch Monitor Module
F900-820	70501	Switch Monitor I/O Module
F900-825	70502	Sounder Control Module
F900-830	70497	Mini-Priority Switch Module
F900-831	70498	Mini-Switch Monitor Module
F900-920	71743	Dual Input-Output Module
F900-930	71744	Dual Input Monitor Module
F900-940	75200	Addressable Manual Station
F900-941	75199	Addressable Manual Station
F900-942	75201	Addressable Manual Station
F900-943	72030	Addressable Manual Station
F1000-450	75162	Discovery Heat Detector
F1000-550	75160	Discovery Ion Detector
F1000-650	75161	Discovery Photoelectric Detector
F1000-886	75163	Discovery Multi-Sensor Detector
MIO-8	70708	Multiple-Input Output Board
ARLY-8	72678	Analog Relay Card
ASPK-8	72631	Analog Speaker Card
ATEL-8	72677	Analog Telephone
CAZ-8	72446	Conventional Analog Zone Card

It is our intention to keep the product information up to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information contact: FIRECOM, INC.