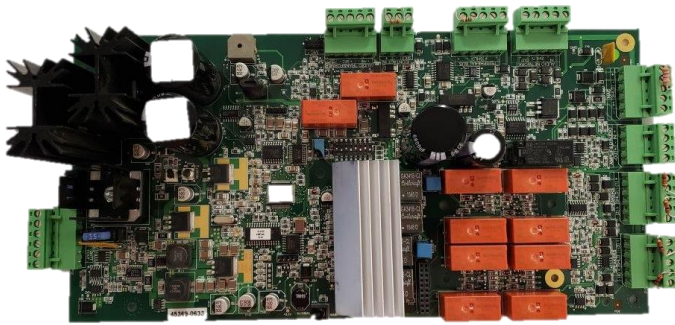


AMPLIFIER KIT



Features

- Serves as the core of the Fike Emergency Communication System (ECS) and backup amplifier circuit.
- Provides an integral 24 Vdc visual notification appliance circuit.
- Delivers up to 50 watts of audio output power to connected voice evacuation speakers.
- Can store up to 16 digitally recorded voice messages in the amplifier memory, each up to 30 seconds long.
- Can be mounted in the host fire alarm control panel enclosure or in any optional amplifier distribution cabinet based on system size.
- Allows up to 31 amplifiers to be connected to a single control panel.
- Compatible with CyberCat® 1016, 254 and 50 with firmware version 5.xx and higher.
- NAC circuit capable of producing SYNC protocol for Gentex and System Sensor.

General

This amplifier kit is designed to feed a single audio zone and provide a 24 Vdc visual notification appliance circuit. The amplifier provides four Class B audio output circuits that are compatible with 25 or 70 Vrms speakers. An optional Class A card can be installed where redundant speaker circuit wiring is required. Each amplifier is equipped with a backup amplifier circuit, which automatically switches on if the amp circuit fails. Customers with larger systems may want to consider installing separate cabinets to house the kits throughout their buildings to reduce the wiring required for installation, and to lessen the chances of audio signal degradation.

Specifications

General	
Overall Dimensions	12.0" (30.5 cm) L x 6.0" (15.24 cm) W
Mounting	
Ambient Temp.	32 - 120°F (0 - 49°C)
Ambient Humidity	93% Non-condensing @ 32°C
Power Input	120 or 240 Vdc
Current Rating	103 mA standby (power LED on) 140 mA alarm (all LEDs on)
Peripheral Bus	
Configuration	Class B
Format	RS485
Circuit Length	4000 ft. (1,219 M) max panel to last device.
Circuit Resistance	96Ω max
Circuit Termination	100 ohm termination resistor (P/N 02-2519), Class B only.
Wire Type	Belden 9841 or equal.
Audio Network	
Configuration	Class A or B
Format	RS485 (31 amplifiers max)
Circuit Length	4000 ft. (1,219 M) max between devices
Circuit Type	NAC
Wire Type	14-26 AWG
Devices	25 or 70 Vrms speakers
Input	Dual channel
Output	50 watts max
Power	
Operation	120 VAC - 60 Hz or 240 VAC - 50/60 Hz transformer
Charging Circuit	Up to 18 AH batteries providing standby power for up to 3 amplifiers.
Amplifier Card	108 mA* @ 24 Vdc in normal standby and alarm.
<small>*Fike Amplifiers produce an audio path supervision pulse that momentarily peaks at 322mA. This supervision pulse duration is extremely short, so battery calculations for the amplifier should be based upon the average current draw of 108mA (standby and alarm), as demonstrated by the approved battery sizes.</small>	

This document is only intended to be a guideline and is not applicable to all situations. Information is subject to Fike's full disclaimer at <http://www.fike.com/disclaimer>.

Approvals

Underwriters Laboratories (UL)
Factory Mutual (FM)
California State Fire Marshal (CSFM)
New York Certificate of Approval (COA)

For exact certification listings, please reference the respective agency web site.

Ordering Information

Part Number	Description
10-2773-1	120 V Amplifier Kit
10-2773-2	240 V Amplifier Kit
Included components in both kits:	<ul style="list-style-type: none">• Amplifier Card• Power Transformer (120 or 240 VAC)• Audio Transformer
Spare Parts	
10-2726	Amplifier Card (50 watt)
10-2746	Amplifier Class A Module
02-10881	120 VAC Power Transformer
02-10882	240 VAC Power Transformer
02-12825	Audio Transformer

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