

by Honeywell

Description

The GFANN-80 annunciator is a compact, backlit 80-character LCD fire annunciator that mimics the Fire Alarm Control Panel (FACP) display. It provides system Status indicators for AC power, Alarm, Trouble, Supervisory, and Alarm Silenced conditions. The GFANN-80 and the FACP communicate over a two-wire serial interface employing the ANN-BUS communication format. Connected devices are powered, via two additional wires, by either the host FACP or a remote UL-Listed, filtered power supply. You can order the GFANN-80 annunciator in red or white, (P/N: GFANN-80-W).

The GFANN-80 displays English-language text of system point information including, device type, zone, independent point alarm, trouble or supervisory status, as well as any custom alpha labels programmed into the control panel. It includes control switches for the remote control of critical systems functions. (A keyswitch prevents unauthorized operation of the control switches).

To obtain the number of GFANN-80 devices that support the ANN-BUS, refer to the host FACP manual.

The ANN-BUS POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY

When the maximum number of ANN-BUS devices exceed the ANN-BUS power requirements, use an auxiliary power supply to power the ANN-BUS. See the FACP manual for more information.

ANN-BUS DEVICE ADDRESSING

Each ANN-BUS device requires a unique address (ID Number) to communicate with the FACP. A maximum of 8 devices can be connected to the FACP ANN-BUS communication circuit. See the FACP manual for more information.

WIRE REQUIREMENTS: COMMUNICATIONS CIRCUIT

The ANN-80 connects to the FACP ANN-BUS communications circuit. To determine the type of wire and the maximum wiring distance that can be used with FACP ANN-BUS accessory modules, it is necessary to calculate the total worst case current draw for all modules on a single 4-conductor bus. The total worst case current draw is calculated by adding the individual worst case currents for each module.

80-Character LCD



GFANN-80

Features

- Listed under UL Standard 864, 9th Edition
- Offers backlit 80-character LCD display (20 characters x 4 lines)
- Mimics all display information from the host panel
- Includes control switches for System Acknowledge, Signal Silence, Drill, and Reset
 - Control switches can be independently enabled or disabled at the FACP
- Keyswitch enables/disables control switches and mechanically locks annunciator enclosure
 - Keyswitch can be enabled or disabled at the FACP
- Enclosure supervised for tamper
- Has system status LEDs for AC Power, Alarm, Trouble, Supervisory, and Alarm Silence
- Allows the local sounder to be enabled or disabled at the FACP
- GFANN-80 connects to the ANN-BUS terminal on the FACP and requires minimal panel programming
- Displays device type identifiers, individual point alarm, trouble, supervisory, zone, and custom alpha labels
- Provides a time-and date display field
- Installs surface mount directly to the wall or to a single, double, or 4" square electrical box

An ISO 9001-2000 Company

SIGNALING



LISTED
S2424



APPROVED

MEA

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442-06-E 7165-1703:0166



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WIRE REQUIREMENTS:

COMMUNICATIONS CIRCUIT (Continued)

Note: For total worst case current draw on a single ANN-BUS refer to appropriate FACP manual.

After calculating the total worst case current draw, the following table specifies the maximum distance the modules can be located from the FACP on a single wire run. The table ensures 6.0 volts of line drop maximum. In general, the wire length is limited by resistance, but for heavier wire gauges, capacitance is the limiting factor.

These cases are marked in the chart with an asterisk (*). Maximum length can never be more than 6,000 feet (1,800 m), regardless of gauge used. See table below.

Wire Requirements: Power Circuit

- 14 to 18 AWG (0.75 - 2.08 mm²) wire for 24 VDC power circuit is acceptable. Power wire distance limitation is set by 1.2 volt maximum line drop from source to end of circuit.
- All connections are power-limited and supervised.
- A maximum of eight ANN-80 modules may be connected to this circuit.

Features (Continued)

- Semi-flush mount to single, double, or 4" square electrical box. Use ANN-SB80KIT for angled view mounting.
- Can be remotely located up to 6,000 feet (1,800 m) from the panel.
- Backlight turns off during AC loss to conserve battery power but will turn back on if an alarm condition occurs
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC).

Controls and Indicators

The following list the controls and indicators.

- AC Power
- Alarm
- Trouble
- Supervisory
- Alarm Silenced

Total Farthest Distance Current Draw	22 Gauge	18 Gauge	16 Gauge	14 Gauge
0.100	1,852 ft.	4,688 ft.	*6,000 ft.	*6,000 ft.
0.200	926 ft.	2,344 ft.	3,731 ft.	5,906 ft.
0.300	617 ft.	1,563 ft.	2,488 ft.	3,937 ft.
0.400	463 ft.	1,172 ft.	1,866 ft.	2,953 ft.
0.500	370 ft.	938 ft.	1,493 ft.	2,362 ft.
0.600	309 ft.	781 ft.	1,244 ft.	1,969 ft.
0.700	265 ft.	670 ft.	1,066 ft.	1,687 ft.
0.800	231 ft.	586 ft.	933 ft.	1,476 ft.
0.900	206 ft.	521 ft.	829 ft.	1,312 ft.
1.000 (max.)	185 ft.	469 ft.	746 ft.	1,181 ft.

Table 1: Communication Pair Wiring Distance: FACP to Last ANN-BUS Module

Figure 1 illustrates the wiring between the FACP and the ANN-BUS devices.

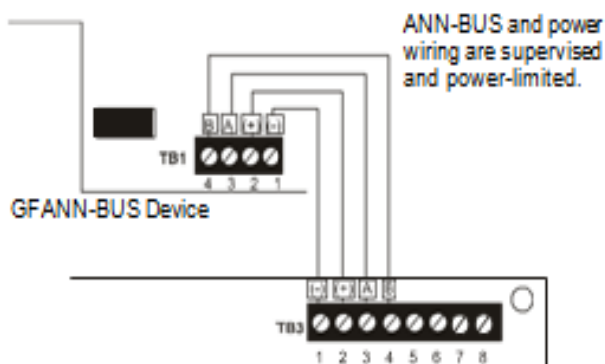


Figure 1 Wiring Configuration

Specifications

- Operating Voltage Range:** 18 VDC to 28 VDC
- Current Consumption:** @24 VDC nominal (filtered and non-resettable): 40 mA maximum
- 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)
- 5.375" H x 6.875" W x 1.375" D (13.65 H x 17.46 W x 3.49 D cm)
- For use indoors in a dry location
- All connections are power-limited and supervised.

Ordering Information

Part Number	Description
GFANN-80	Red, 80 character LCD Annunciator
GFANN-80-W	White, 80 character LCD Annunciator
ANN-SB80KIT-R	Red surface mount backbox with angled wedge
ANN-SB80KIT-W	White surface mount backbox with angled wedge

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