

General

The ANN-80 Series Remote Fire Annunciators and Indicators (ANN-80, ANN-80-W, ANN-80C) are compact, backlit LCD displays designed for use with compatible FACP (Fire Alarm Control Panels). The displays mimic the FACP display and are capable of displaying English-language text of system point status including device type, independent point alarm, trouble or supervisory zone and custom labels programmed into the FACP. Refer to the FACP manual installation section for detailed system information and wiring. The ANN-80C Indicator is intended for use as a replacement part only per ULC S527-99.

NOTE: Installation and wiring must be done in accordance with NFPA 72 and local wiring codes.

Specifications

■ **TB1 Terminals 1 & 2**

Operating Voltage Range: 18.8VDC to 38.2VDC
Maximum Current Consumption:

- Normal/Standby (no activity): 39 mA
- Trouble Condition: 46 mA
- Alarm: 48 mA
- AC Fail (not backlit): 15 mA

■ **TB1 Terminals 3 & 4**

ANN-BUS rated at 5.5 VDC and 60 mA max.

■ **Dimensions**

6.875"W x 5.375"H x 1.375"D (17.46cm x 13.65cm x 3.49cm)

Mounting

The ANN-80 Series plastic enclosures can be surface or semi-flush mounted in a single, double or 4" (10cm-sized) square electrical box.

To mount the ANN-80 Series enclosure:

1. Open the ANN-80 Series cover by turning the key switch counterclockwise to the ON (Unlocked) position.
2. Push in the snap latch tab located on the right side while pulling the cover open.
3. Pull wire through 7/8" (2.22cm) hole in backplate and feed through wire channel to lower left corner of backplate before routing to terminal block (refer to appropriate FACP manual).

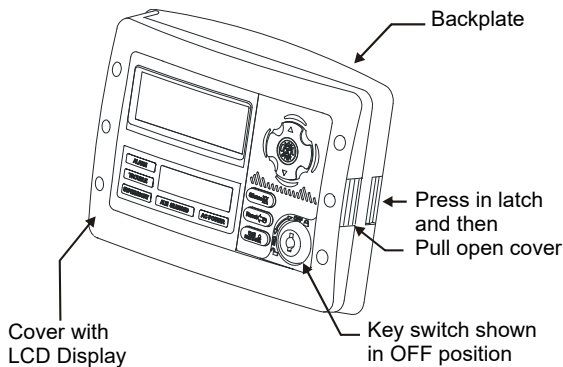


Figure 1 Opening the ANN-80 Series

ANN-80 Series Annunciators
Product Installation Document

PN 52749:D4 12/6/2022 ECN: 00028310

4. The cover must remain attached to the backplate while mounting the annunciator to the electrical box/wall. The cover cannot be reattached or removed after the annunciator has been mounted.
5. If the cover should become detached from the backplate, reattach as shown below.

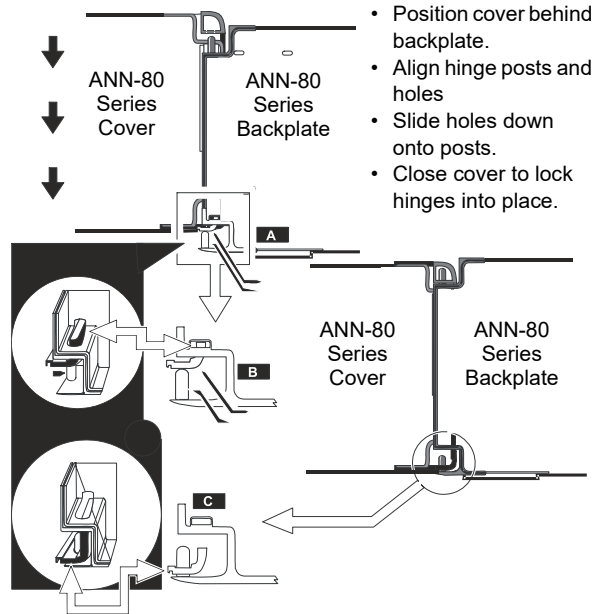


Figure 2 Cover Reattachment

6. Surface or Semi-flush mount the ANN-80 to a single, double or 4" (10cm-sized) square electrical box. The ANN-SB80KIT(-R/-B/-W) is an available kit that contains two plastic backboxes that can be used to surface mount the ANN-80 Series.

Wiring the ANN-80 Series to the FACP

Refer to Table 1 and Figure 3 for wiring connections.

ANN-80 Series Terminals (TB1)	FACP ANN-BUS Terminals
Terminal 1 (-)	(-)
Terminal 2 (+)	(+)
Terminal 3 (A)	A (ANN-BUS)
Terminal 4 (B)	B (ANN-BUS)
ANN-80 Series Terminals (TB2)*	FACP ANN-BUS Terminals
Terminal 1	Earth Ground

Table 1 ANN-80 Series to FACP Connections

* TB2 is not available on the ANN-80C.

Setting the DIP Switches - ANN-80(-W)

■ Address Setting

Each ANN-BUS device requires a unique address. DIP switches 1-4 on S1 are used to set the address. This address will be displayed on the LCD display as the Station ID number.

A maximum of 8 devices can be connected to the FACP ANN-BUS communication circuit. ANN-BUS device addresses do not need to be sequential and can be set to any number between 01 and 08. Note that 00 is not a valid address. The following illustrates the DIP switch settings for each address (ID Number).

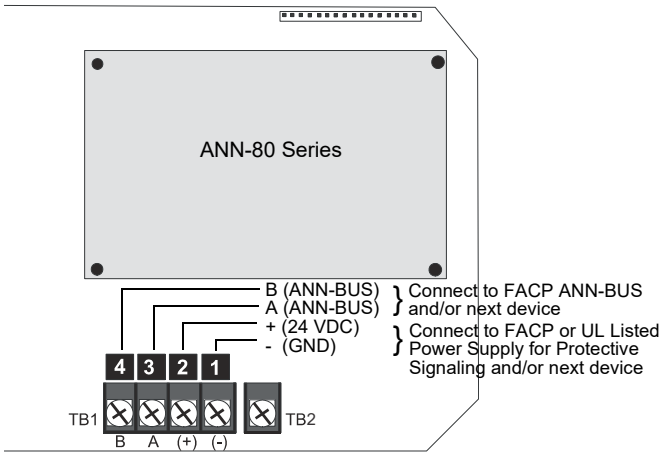


Figure 3 Wiring the ANN-80(-W) to an FACP

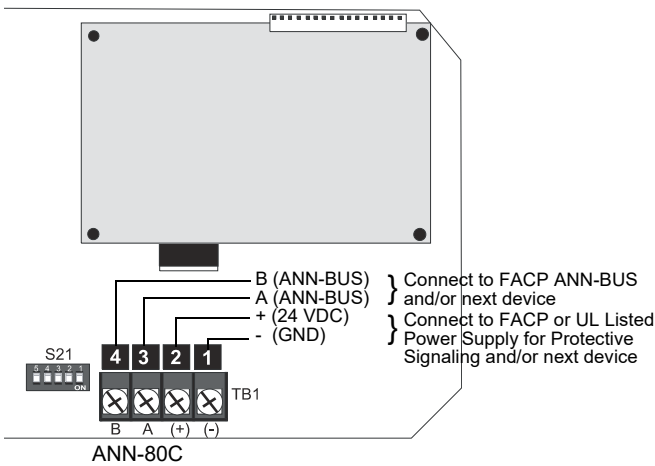


Figure 4 Wiring the ANN-80C to an FACP

Notes for Figure 3 and Figure 4:

1. All connections/sources must be power-limited and supervised.
2. 12 - 22 AWG (0.33 - 3.31 mm²) wire for ANN-80(-W) and 12-18 AWG (0.75 - 3.25 mm²) for ANN-80C is acceptable for the 24 VDC circuit.
3. Power wire distance limitation is set by 1.2 volt maximum line drop from source to end of circuit.
4. Maximum distance from FACP to last ANN-BUS device must not exceed 6,000 feet (1,800 m). Refer to the Wiring Distance Table in the appropriate FACP manual for wire gauge and distance limitations.

**ID Number
(Address)**
(not valid) 00

DIP Switch S1



01



02



03



04



05



06



07



08



■ Communication Protocol

DIP switch 5 is used to determine the communication protocol of the ANN-80 Series. Set DIP switch 5 to ON for ANN-BUS protocol. This switch must stay in the ON position for proper functionality.



Ensure switch 5 is ON



■ End-of-Line Resistor

The end-of-line termination resistor must be enabled at S1 on the last device on the communication circuit. All other annunciators should have these switches set to disable.



termination enabled












termination disabled

DIP switches 7 and 8 are unused.

Setting the DIP Switches - ANN-80C

Each ANN-BUS device requires a unique address. DIP switch S21 on the ANN-80C is used to set the address. This address will be displayed on the LCD display as the Station ID number.

A maximum of 8 devices can be connected to the FACP ANN-BUS communication circuit. ANN-BUS device addresses do not need to be sequential and can be set to any number between 01 and 08. Note that 00 is not a valid address. The following illustrates the DIP switch settings for each address (ID Number):

ID Number (Address)	DIP Switch S21
(not valid) 00	
01	
02	
03	
04	
05	
06	
07	
08	

Changes & Comments for *ANN-80 Series* *Installation Document* —52749:D4

Revise to:	UL change?	ECN:	Brief description:
D3	Yes	00004925	Plan-C updates
D4	Yes	000xxxxx	corrections to C version indicator regarding Plan-C.

- pg. 1 11/30/22-wc-added note in first paragraph that -C version is only available as a replacement part per UL.
- pg. 1 11/30/22-wc-added footnote to table 1 that second terminal block is not available on -C model.
- pg. 2 12/1/22-wc-added old model wiring back in to support ANN-80C model. (figure 4)
- pg. 2 12/6/22-wc-updated wire gauge per attila.
- pg. 3 11/30/22-wc-added -C version DIP switch address settings.