

SK-F485C SBUS/Fiber Converter

Product Installation Document

PN LS10004-001SK-E:C 12/13/2021 ECN: 151062

1 Description

The SK-F485C is a module used in pairs to convert the fire alarm control panel's (FACP) SBUS from wire to fiber and back again.



NOTE: Do not use this product to network FACP's.

The primary power, SBUS, and SLC circuits are supervised and power-limited. Fiber-optic circuits are supervised.

1.1 Compatibility

The SK-F485C is used with compatible Honeywell Silent Knight and Farenhyt Series FACP's and power supplies. For additional information, refer to the *FACP Installation Manuals*.

2 Specifications

- External Power Supply: 9-35VDC @ 125 mA max
- Fiber Connection Duplex ST connectors for Tx and Rx Data Fiber Cable Duplex 62.5 micron Multi-mode Fiber Data Rate 115.2K bits/second
- Fiber Distance: up to 1.0 Mile (1.6Km) SK-F485C Connection (two-wire) or Terminal strip, and jumper selectable bias / termination
- There are several jumpers on the board. These jumpers need to remain in place.
- Maximum attenuation: 5.5db
- SK-F485C cable, single twisted pair, 24AWG, Helix 21011
- SK-F485C data direction control automatic half duplex transmitter enable control, for any baud rate / data bits
- Operating Temperature: 32° - 120°F (0-49°C)
- Humidity: 10%-93% (non-condensing)
- Dimensions: 4.75" x 4.25" x 1.0" (12.1cm x 10.8cm x 2.5cm)

3 Mounting

3.1 FACP Cabinet

Mount the SK-F485C in a compatible FACP/power supply cabinet.

1. Remove AC power and disconnect backup batteries from the main control panel.
2. Attach the supplied 1/4" standoffs to the studs in the back of the cabinet.
3. Align the SK-F485C over the standoffs and secure with screws provided.

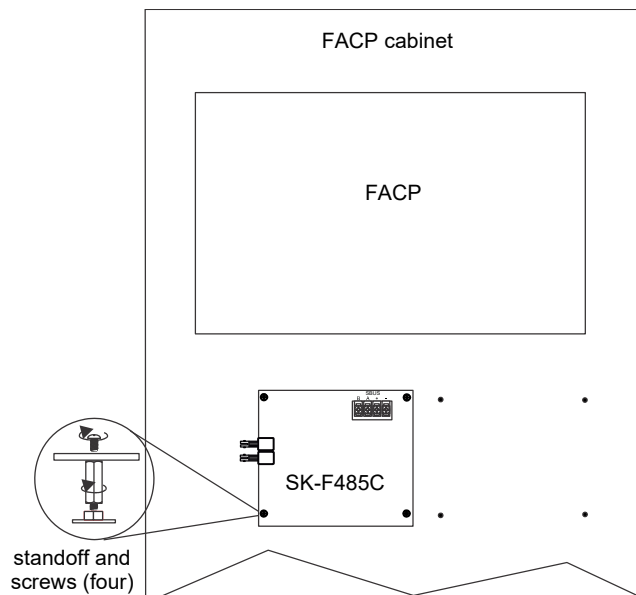


Figure 1 SK-F485C Mounting in FACP Cabinet



NOTE: When the SK-F485C is used with the IFP-100, 5808, IFP-75, 6700, IFP-50, or 5700, you must use the 5815RMK Remote Mounting Kit.

3.2 5815RMK Cabinet

The 5815RMK is a remote mounting kit that offers you the option to install up to two SK-F485C converter modules in a single cabinet. When using the 5815RMK, it must be mounted in the same room within 20' (6.1 m) of the control panel or the power supply and in conduit.

- 1. Insert four supplied plastic standoffs into the holes in the plate in the back of the 5815RMK cabinet.
- 2. Align the SK-F485C over the standoffs and press down gently until the board is secured to standoffs.

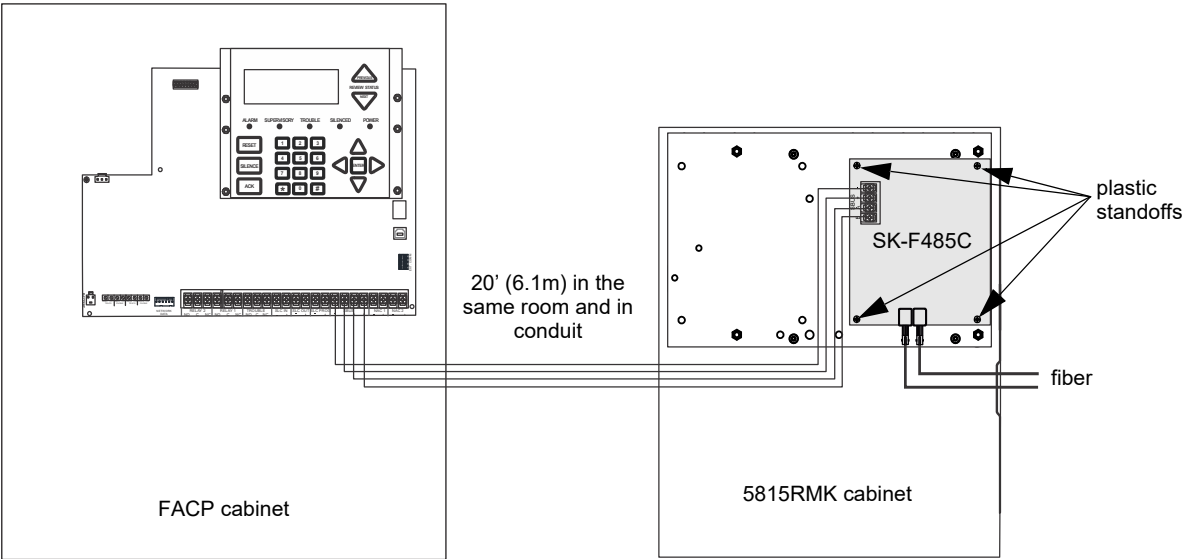


Figure 2 SK-F485C Mounting using the 5815RMK Cabinet

4 Wiring

4.1 FACP Wiring

See Table 1 and Figure 4 to properly wire the SK-F485C to a compatible FACP.

SK-F485C Terminals	FACP SBUS Out Terminals
+	+
-	-
A	A
B	B

Table 1 SK-F485C to FACP Terminal Connections

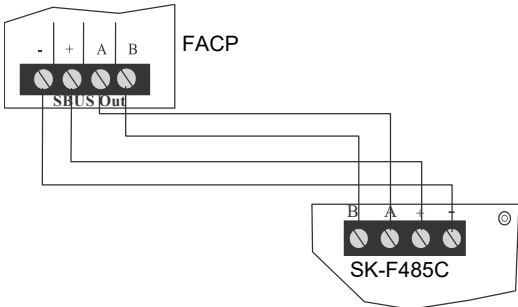


Figure 3 SK-F485C Connection to the Panel

4.2 SK-F485C to Power Supply Wiring Connections

See Table 2 and Figure 4 for terminal connections from the SK-F485C to a 5895XL or RPS-1000 Power Supply.

SK-F485C Terminals	Power Supply Terminal Number
+	32, 22*
-	33, 21*
A	31
B	30

Table 2 SK-F485C to Power Supply Terminal Connections

* T-tap connection. Refer to Figure 4.

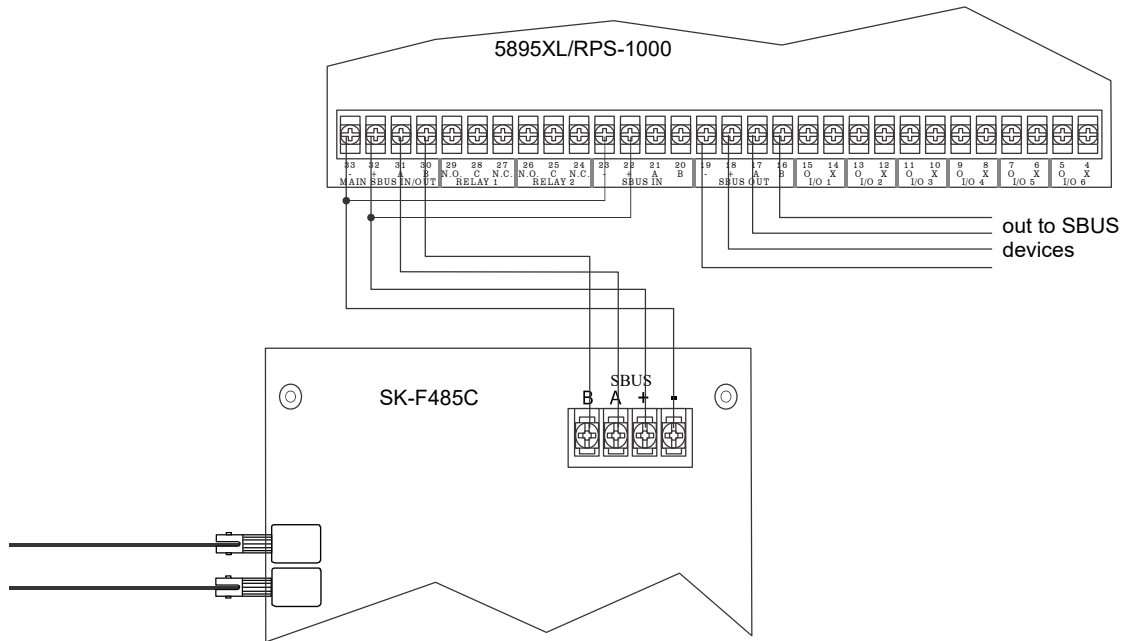


Figure 4 to Power Supply Terminal Connection

4.3 SK-F485C to SK-F485C Fiber Wiring Connections

See Table 3 for terminal connections from the first SK-F485C to the second SK-F485C.

SK-F485C Terminals	SK-F485C Terminals
RX	TX
TX	RX

Table 3 SK-F485C to SK-F485C Terminal Connections

Figure 5 shows the fiber wire connection from the panel to the power supply.

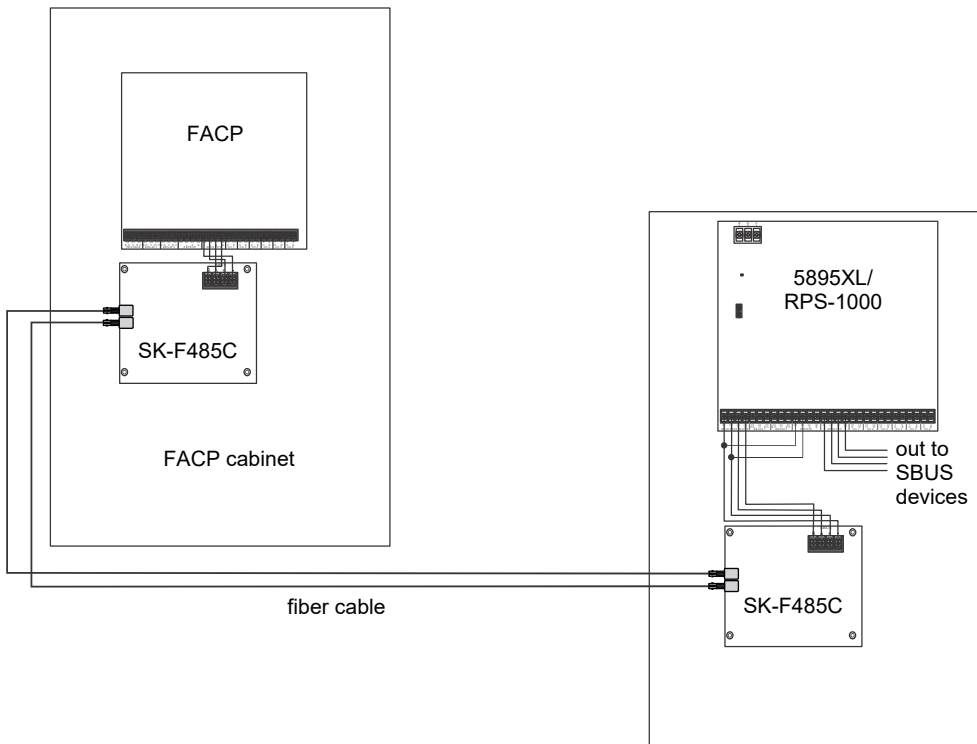


Figure 5 Fiber Wire Connection from the Panel to the Power Supply