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FieldPoint™ Operating Instructions

cFP-PDB-100

Compact FieldPoint Fused Power Distribution Block

The cFP-PDB-100 is a fused power distribution block for FieldPoint and Compact FieldPoint. It provides an easy-to-use, reliable way to distribute power from a single 10–30 VDC power supply, such as the NI PS-5, to the FieldPoint bank and to sensors and other devices. The cFP-PDB-100 is ideal for applications that do not require module-to-module isolation.

Connect the positive lead of a 10–30 VDC power supply to one of the V terminals and the negative lead to one of the C terminals. If the total current can exceed 15 A, connect both V and both C terminals.

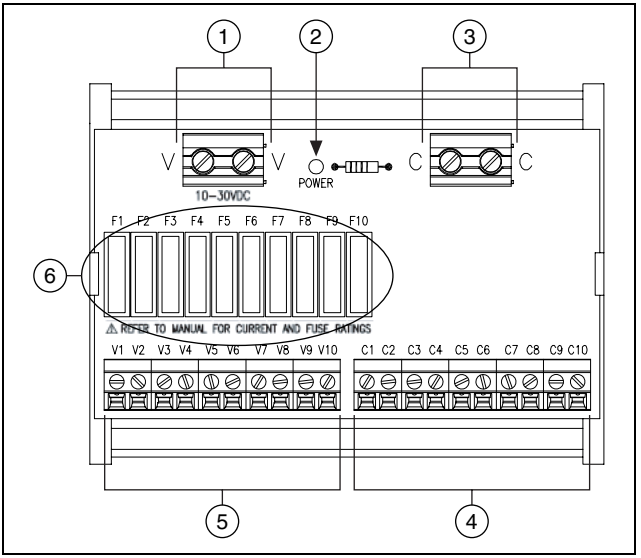
The following table lists the maximum current levels at each of five maximum operating temperatures.

Table 1. Current and Temperature Limits

Total Current through cFP-PDB-100	Maximum Current per Circuit × Number of Circuits	Maximum Operating Temperature
5 A	5 A × 1 circuit	45 °C
10 A	5 A × 2 circuits	40 °C
20 A	5 A × 4 circuits	35 °C
20 A	2 A × 10 circuits	40 °C
30 A	5 A × 6 circuits	35 °C

The block is shipped with 2 A, 32 V blade fuses on each of the output terminals. You can replace them with fuses up to 5 A if necessary.

Refer to Figure 1 for the locations of the V and C terminals and other parts of the cFP-PDB-100.



1	V Terminals for Power Supply	5	V Terminals for Bank and Devices
2	Power LED	6	Slots for Fuses, 5 A Max
3	C Terminals for Power Supply		
4	C Terminals for Bank and Devices		

Figure 1. cFP-PDB-100 Fused Power Distribution Block

Advanced Use with NI PS-5 Power Supplies

If you have two PS-5 power supplies, you can connect both power supplies to the cFP-PDB-100 to provide redundancy or to supply up to 10 A of power to the FieldPoint bank. Refer to the manual shipped with the NI PS-5 for more information.

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