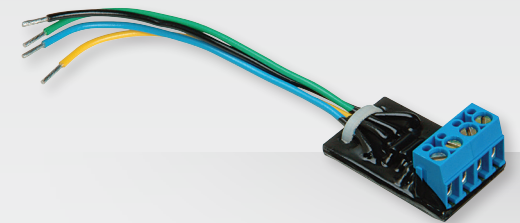


+ QUICK START GUIDE



Model 485FPP

Optically Isolated RS-422/485 Repeater

Before you begin, be
sure you have the following:

+ 485FPP Fused Port Protector

B+B SMARTWORX

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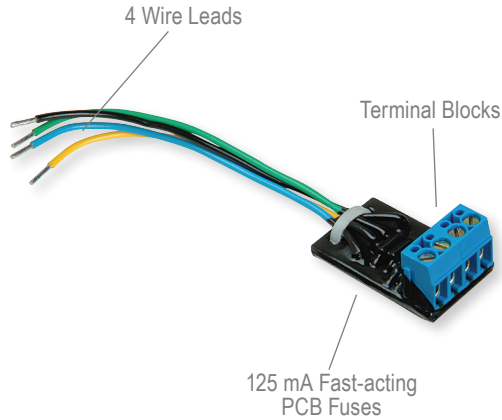
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Product Overview

600W Serial Circuit
Surge Suppression



2 | Installation

The 485FPP has 4 wires and terminal blocks for easy inline installation between the data cables – as close as possible to the serial port.

The terminal blocks connect to your wiring.

The wire leads connect directly to your RS-422 or RS-485 equipment. Four leads are provided:

- Two data lines
- Signal ground
- Frame or green wire ground

(Note: in four-wire communication systems, two 485FPPs are required to protect four lines.)

The yellow and blue wires and the terminal blocks opposite of them are the data “A” and “B” (or “+” and “-”) lines.

Polarity is not important to the 485FPP, but it is important that your “A” and “B” lines are not crossed from one side of the 485FPP to the other.

3 | Grounding

The black wire and its terminal block are provided for a signal ground connection. If you are not using a signal ground wire, this connection is not necessary.

The green wire and its terminal block are the frame ground connection. This connection must be made or the 485FPP will not protect your port. At least one side (the green wire or the terminal block) must be connected directly to a good frame (chassis, green wire, or earth) ground. This must be a low impedance connection for the 485FPP to be effective.

1 | Getting Started

The 485FPP provides surge suppression for ports with RS-422 or RS-485 signal levels. In addition to surge suppression, fast-acting 125 mA PCB fuses protect RS-422 and RS-485 circuits against transient voltages that are too long or too large for normal suppression.

The 485FPP was designed as a disposable device. Once a fuse is blown, the unit should be replaced.

