

PFH-4

SHDSL/SHDSL.bis Power Feeding Hub



Remote power feeding to multiple SHDSL/SHDSL.bis lines eliminating the need for local power

- Interoperability with ASMi-52/ASMi-54 or SHDSL/SHDSL.bis repeaters
- 120 VDC or 180 VDC output power feeding options per line at 60 mA with current limit protection for each channel
- 48 VDC input power on standard half 19-inch metal rack
- Terminal block connectors for input and output of each line
- Current leakage protection (line to earth)

PFH-4 is a standalone remote power feeding hub that delivers power and data to up to eight SHDSL/SHDSL.bis lines and eliminates the need for locally powered modems or repeaters.

The unit combines power and data on up to four pairs of lines through input and output terminal block connectors.

The hub supplies each line with 120 or 180 VDC at a maximum of 60 mA.

All lines are protected from overload, short-circuiting, and leakage to earth. At overload, a current limiter stops the power feeding, activates a LED alarm, and initiates auto-restart recovery.

A dry contact relay outputs major and minor alarm warnings to a DB-9 connector.

Front-panel LEDs indicate the power feeding status for each line and provide warnings for current and temperature overload conditions.

The external DIP switch enables selective power feeding for each individual line.



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SHDSL/SHDSL.bis Power Feeding Hub

Specifications

POWER SUPPLY

Input Power

48 VDC nominal (40–72 VDC)

Connector

Three-pole male terminal block

LINE INTERFACE

Data

4 x 2-wire

2 x 4-wire

1 x 8-wire

Power Feeding

120 VDC or 180 VDC at 60 mA maximum per line

Connectors

Input–single pair male pin terminal block

Output–single pair female pin terminal block

GENERAL

Power Feeding Control Switch

2-position DIP switch per pair

LED Indicators

P-FED (green)–Power feeding is active

ALM (red)–Fault indication

PWR (green)–48 VDC input is active

Alarm Relay

DB-9, female, major alarms relay via a dry contact

Physical

Height: 43.7 mm (1.7 in)

Width: 215 mm (8.5 in)

Depth: 300 mm (11.8 in)

Weight: 2 kg (4.4 lb)

Power Consumption

12W during normal operation

Environment

Temperature: 0° to 50°C (32° to 122°F)

Humidity: Up to 90%, non-condensing

Ordering

PFH-4/DC/*

Legend

* Power feeding and line interface:

180V/2P 180 VDC, 2-pair interface

120V/4P 120 VDC, 4-pair interface

180V/4P 180 VDC, 4-pair interface

Note: Only the 120 VDC version can work opposite the 4-wire/8-wire ASMi-54 modem.

SUPPLIED ACCESSORIES

3-pin female adapter plug for DC power input

Dual-pin female plugs for line input

Dual-pin male plugs for line output

OPTIONAL ACCESSORIES

RM-35/@

Hardware kit for mounting one or two PFH-4 units in a 19-inch rack

Legend

@ Rack mount kit (Default=both kits):

P1 Mounting one unit

P2 Mounting two units

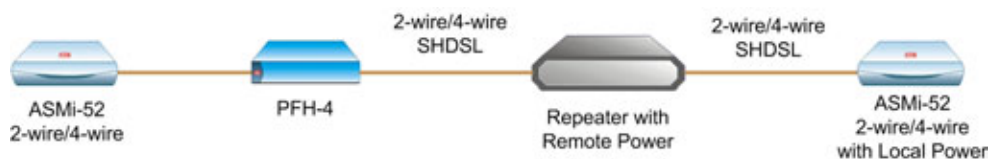


Figure 1. Remote Power Feeding of 2-wire/4-wire Repeater



Figure 2. Remote Power Feeding for 4-wire/8-wire SHDSL.bis Lines

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