

PFH-4

Power Feeding Hub



FEATURES

- Remote power feeding of up to four pairs of SHDSL lines
- Output power feeding options per line:
120 VDC at 60 mA or
180 VDC at 60 mA
- Input power 48 VDC
- Terminal block connectors for input and output of each line
- DIP switch allowing selective power feed per line.
- Current limit protection for each channel
- Current leakage protection (line to earth)
- LED line status indicators
- Dry contact connectors for alarms
- Front access on standard one-half 19-inch metal rack

DESCRIPTION

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

POWER SUPPLY

- **Input Power**
48 VDC nominal (40–72 VDC)
- **Connector**
Three-pole male terminal block

LINE INTERFACE

- **Data**
Four 2-wire or two 4-wire (see *Ordering*)
- **Power Feeding**
120 VDC or 180 VDC at 60 mA maximum per line (see *Ordering*)
- **Connectors**
 - Input – single pair male pin terminal block
 - Output – single pair female pin terminal block

CONTROLS AND INDICATORS

- **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

GENERAL

- **Alarm Relay**
DB-9, female; major alarms relay via a dry contact
- **Physical**
Height: 43.7 mm (1.7 in)
Width: 215.5 mm (8.5 in)
Depth: 300 mm (11.8 in)
Weight: 2 kg (4.4 lb)
- **Environment**
Temperature: 0° to 50°C
(32° to 122°F)
Humidity: Up to 90%,
non-condensing

ORDERING

PFH-4/DC/180V/2P

SHDSL power feeding hub,
180 VDC, 2-pair interface

PFH-4/DC/120V/4P

SHDSL power feeding hub,
120 VDC, 4-pair interface

PFH-4/DC/180V/4P

SHDSL power feeding hub,
180 VDC, 4 -pair interface

SUPPLIED ACCESSORIES

For DC power input, 3-pin female
adapter plug

For line input, dual-pin female plugs

For line output, dual-pin male plugs

OPTIONAL ACCESSORIES

RM-35/@

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

@ Specify rack mount kit type:

- P1** for mounting one unit
- P2** for mounting two units

APPLICATION

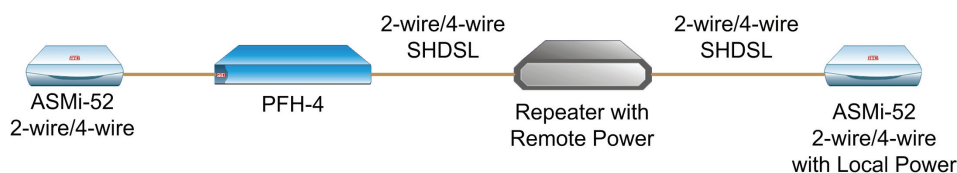


Figure 1. Remote Power Feeding for 2-wire/4-wire Repeater



data communications

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