

PD 3950 USB to P-NET Interface

General information

The PD 3950 USB to P-NET Interface module provides an interface between the P-NET Fieldbus and a standard PC running VIGO The Fieldbus Management System version 5.7 or higher.

Using the PD 3950, any standard desktop, laptop or single board PC with a USB port, may be used as a node in a P-NET installation, in applications such as process and factory automation, machine control, building automation, data acquisition etc.

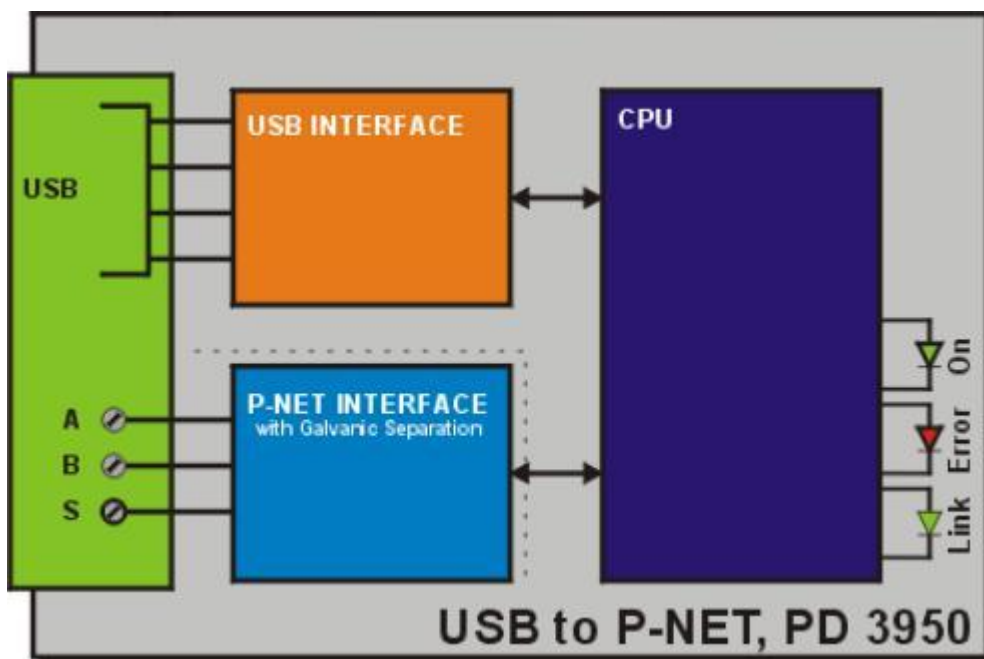


Specific Features

- P-NET Fieldbus communication interface.
- P-NET RS485, multi-master P-NET interface.
- Galvanically isolated P-NET communication port.
- Manual baudrate selection 9600, 76800 Baud.
- Can be connected to any standard USB port or USB HUB.
- Powered by the USB port via the USB cable.
- Supports firmware upgrade via USB.
- Channel for holding application licences.
- Compact designed, suitable for wall mounting, mounting underneath desk etc.

PD 3950 Block Schematic

The following block diagram shows the internal structure of a PD 3950 USB to P-NET Interface:



Channel Structure

The PD 3950 consists of 3 channels as shown in the table.

Channel No.	Channel name	Channel description
0	Service	Service channel
1	LicenceCh	Channel for holding application licences
2	USBCh	USB channel

Electrical Specifications

Power consumption Max. 246 mA

Temperature

Operating temperature -25 °C - 70 °C

Storage temperature -40 °C - 85 °C

Humidity

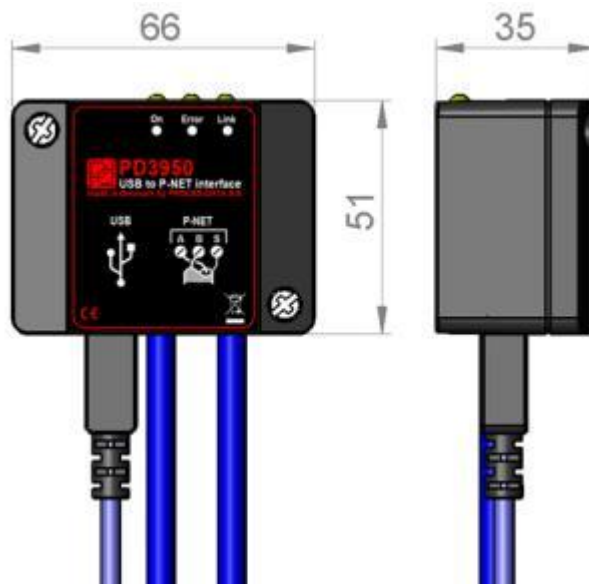
Relative humidity: Max. 95%

EMC

EN 61000-6-2, EN 61000-6-3

Mechanical Details

The PD 3950 USB Interface is housed in a black plastic case.



Dimensions

(WxHxD)

66 x 51 x 35 mm

Case material

Polycarbonate

Front foil

ABS

Back plate

Black anodized aluminum

Weight

75 grams

USB Cable

PROCES-DATA recommends that only the provided USB cable is used together with the PD 3950 USB interface.

