The BradCommunications™ USB adapter provides flexibility and high-performance to configure and run diagnostics on PROFIBUS DP-V1 devices including Profibus PA field instruments.

PROFIBUS DP-V1 USB Adapter

Configuration/Monitoring of FDT compliant PROFIBUS devices

Features

- **FDT Certified Product**

- **Easy Access to PROFIBUS PA devices by using DP-V1 Services**

- **Supports Device Configuration and Diagnostic through FDT**

- **Supports all standard baud rates: 9.6 Kbaud to 12 Mbaud, including 45.45 kBit/s**

- **Diagnostic LEDs for USB and PROFIBUS communications status**

- **Support High Speed USB Standard Version 2.0 as well as Version 1.1**

- **Compatible with Microsoft Windows 2000, Microsoft Win XP, Microsoft 2003 Server and CommDTM according to FDT specification version 1.2**

About FDT

- **FDT (Field Device Tool) technology standardizes the communication interface between field devices and systems**

- **Minimized effort for integration of field devices into software systems**

- **Simply use the best-of-class devices with your FDT engineering tool**

The BradCommunications™ PROFIBUS USB adapter is an intelligent PC interface supporting High Speed USB Version 2.0 as well as Version 1.1. The USB adapter acts as a DP-V1 Master class 2 at all data transfer rates up to 12Mbit/s including 45.45 Kbit/s transfer rate used by PA converters.

The portability of using a laptop on the plant-floor provides for a quick and easy solution to configure, set parameters, diagnose and trouble-shoot your PROFIBUS DP-V1 devices.

The product package includes a certified CommDTM driver conforms to FDT v1.2 specifications. It is the ideal solution for connecting FDT engineering tools such as PACT*ware*™ or FieldCare™ to PROFIBUS. It allows the linking with Device DTMs for the configuration and diagnostics with DP-V1 devices including Profibus PA field instruments.

The BradCommunications CommDTM integrates helpful features like:
- DTM station address assignment
- PROFIBUS station address assignment
- Automatic scanning of connected devices
- Log of PROFIBUS data exchange
- Advanced DP-V1 parameters for setting up communication for example accessing HART® devices through RemoteIO gateway.
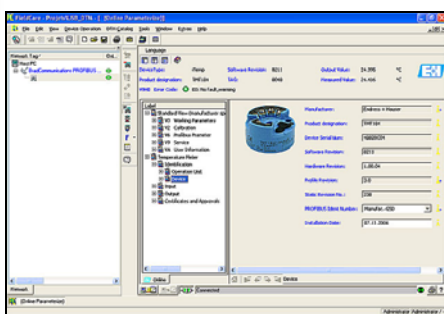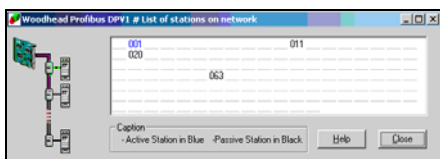
The BradCommunications product category provides a complete line of PROFIBUS automation solutions through its PC & PLC interfaces, gateways, diagnostic tools, physical media, and I/O modules.

BradCommunications™
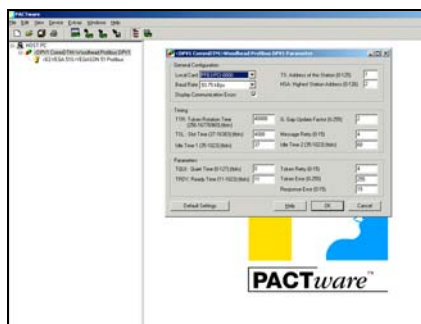from Woodhead Industries

PROFIBUS USB Adapter

Software tools

The PROFIBUS USB adapter is currently available with all FDT frame applications. An easy to understand graphical interface supports the host application with the network configuration.

- Fieldcare Screenshot -

- Pactware Screenshot -

Related products

BradConnectivity™ PROFIBUS D-Sub connector with integrated diagnostics

BradCommunications™ SST™ PROFIBUS Interface Card

Hardware Specifications

PROFIBUS Processor	186 core, 48 MHz
USB Processor	ARM 7, Philips LPC2212
LED Indicators	- USB Connection Status - PROFIBUS Error detection - PROFIBUS Communication Status
Power supply	5V through USB (no external supply required)
Consumption	350 mA
Galvanic isolation	500V
Dimensions (L x W x H)	56 x 33 x 99mm (2.20" x 1.29" x 3.89")
Housing	Aluminium box
Operating Temperature	0°C to +55°C (32°F to 131°F)
Storage Temperature	-20°C to +70°C (-4°F to 158°F)
Humidity	5 to 95% non condensing
Certification	CE, UL, UL/C
RoHS compliant	Yes
USB Interface	
USB Standard	Version 2.0 or 1.1
Data Transfer Rate	Full speed and High Speed with automatic recognition
Connectors	
USB type	- USB Type Mini-B - USB cable A/ Mini-B
PROFIBUS	9 pin, D-sub, female

Ordering information

Part Number	Description
SST-PFB-USB-DTM	BradCommunications™ SST™ PROFIBUS DP-V1 USB Adapter for FDT compliant field devices

Related part numbers:

Part Number	Description
DRL- PFB-USB	BradCommunications™ Direct-Link™ PROFIBUS DP-V0 and DP-V1 USB Adapter
SST-PB3-PCU	BradCommunications™ SST™ PROFIBUS Interface Card, Universal PCI 3.3/5V bus including CommDTM driver
PA9D0B-42	BradConnectivity™ PROFIBUS D-Sub connector with integrated diagnostics, 45° format
PA9D01-42	BradConnectivity™ PROFIBUS D-Sub connector with integrated diagnostics, 90° format
MA9D00-42	BradConnectivity™ PROFIBUS D-Sub connector with integrated diagnostics, 0° format

Network Interface

BradCommunications™
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