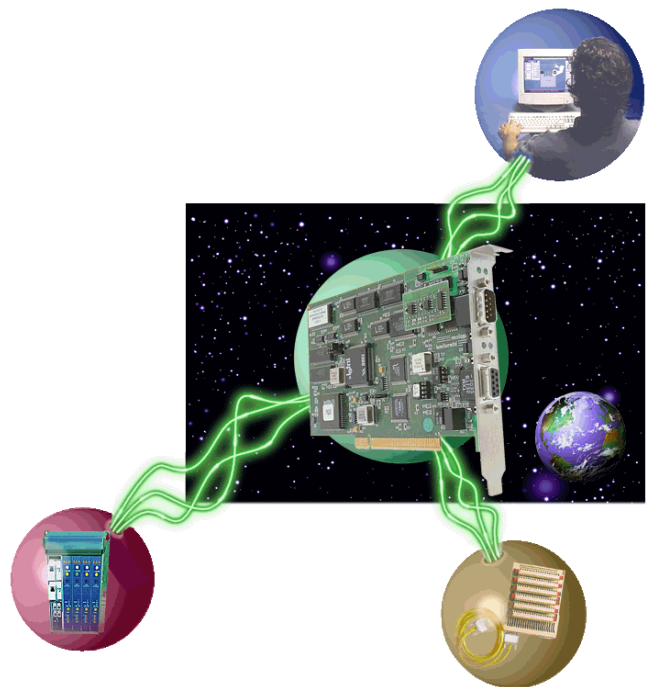


Introduction to the CommDTM BradCommunications PROFIBUS USB

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a product of Woodhead Software & Electronics



Document Edition:**Date:** May 30, 2006**This document applies to the BradCommunications PROFIBUS USB product.**

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1 Preface

Preface Sections:

- Purpose of this Guide
- Conventions

Purpose of this Guide

This guide contains technical and product-related information on the **BradCommunications PROFIBUS USB** product.

This CommDTM is an OLE software component included within a system that can be used to configure and run diagnostics on Profibus DPV1 device (including PA).

Conventions

This guide uses stylistic conventions, special terms, and special notation to help enhance your understanding.

Terminology

The following special terms are used throughout this guide:

<i>BradCommunications USB100PFB</i>	BradCommunications interface between Profibus network and USB connection.
<i>DTM</i>	Device Type Manager. OLE software component.
<i>CommDTM</i>	OLE software component which is the interface with the network.
<i>DTM container</i>	OLE software component which contains Device DTMs and CommDTMs.
<i>FDT frame application</i>	See <i>DTM container</i> .
<i>Device DTM</i>	OLE software component which allows to configure and run diagnostic of Profibus DPV1 device

Special Notation

The following special notations are used throughout this guide:



Warning

Warning messages alert the reader to situations where personal injury may result. Warnings are accompanied by the symbol shown, and precede the topic to which they refer.



Caution

Caution messages alert the reader to situations where equipment damage may result. Cautions are accompanied by the symbol shown, and precede the topic to which they refer.



Note

A note provides additional information, emphasizes a point, or gives a tip for easier operation. Notes are accompanied by the symbol shown, and follow the text to which they refer.

2 The **Brad**Communications PROFIBUS USB solution

Chapter Sections:

- Introduction
- The concept
- Content of the package
- Main features
- Software installation

2.1 Introduction

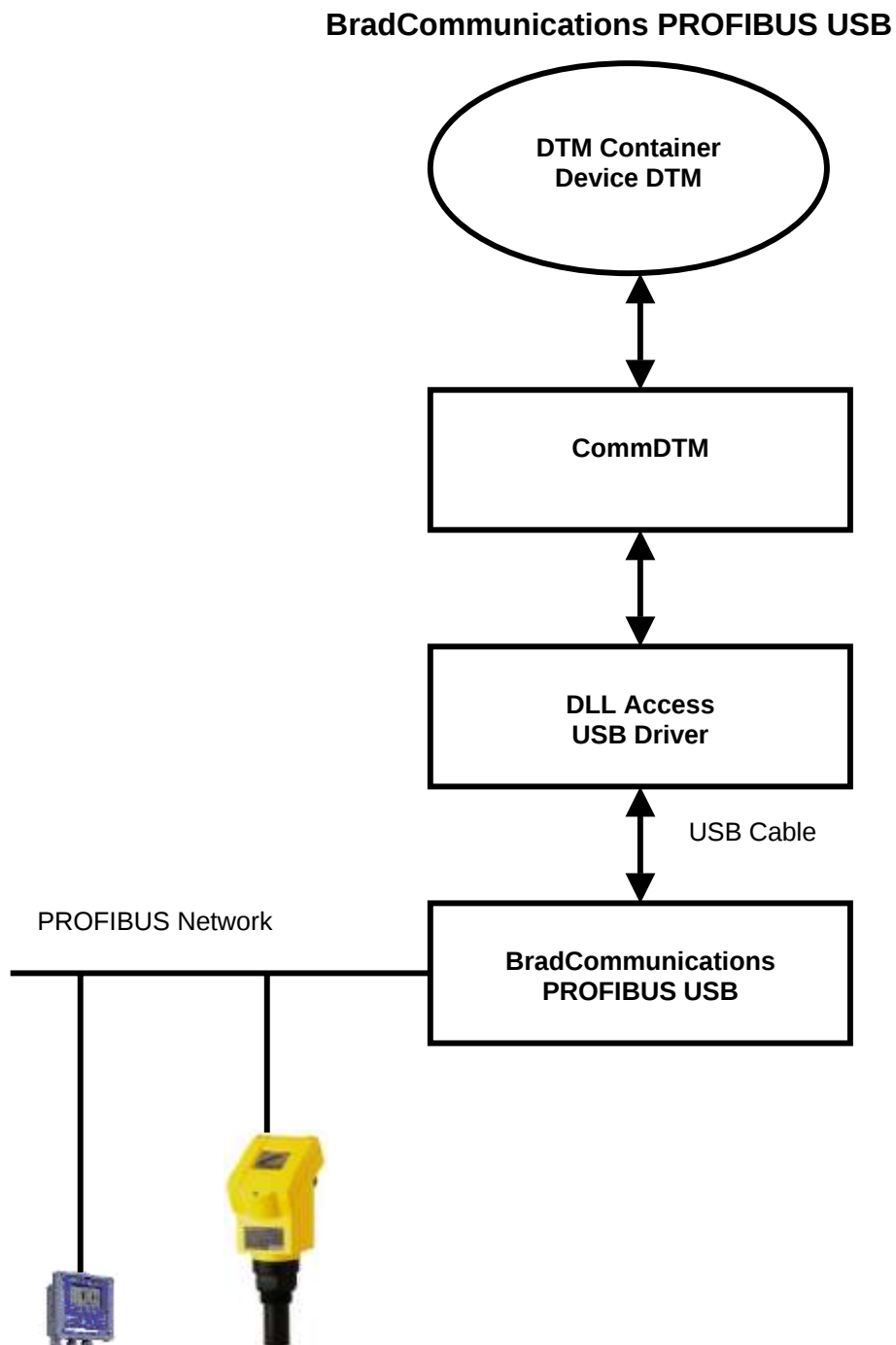
Welcome to the world of industrial communication with **BradCommunications** PROFIBUS USB.

The **BradCommunications** PROFIBUS USB solution provides you a commDTM interface to use with DTM container and FDT Frame application. This technology uses Profibus DPV1 layer to configure and diagnose PA devices with user-friendly Device DTM.

This solution uses the **BradCommunications** USB100PFB, a physical interface between the Profibus network and the USB port of your computer. The USB solution is the simplest way to connect a fieldbus network to a computer.

The majority of the functionalities of **BradCommunications** PROFIBUS USB are set out briefly below. To obtain more detailed information on these functionalities, refer to the corresponding manual.

2.2 The concept



The USB100PFB, the physical interface between the Profibus network and the USB port of your computer, contains a **DC100PFB** module.

2.3 Content of the package

You have just purchased the **Brad**Communications PROFIBUS USB product. It is delivered in a case containing the following items:

Items	Description
1 CD-ROM.	With the CD-Browser, the CD-ROM navigation tool, you will find the following content: Product installation , including the full version of Brad Communications PROFIBUS USB. Documentation , including a version, which can be consulted on line. Access to the Woodhead web site to consult on the Internet the latest product information and download the software updates The contacts full address details to reach Woodhead, its subsidiaries and the distributors throughout the world.
1 Brad Communications USB100PFB	This is the hardware interface to connect to the USB port of your computer.
1 USB cable	USB cable to connect the Brad Communications USB100PFB to your computer.

2.4 Main features

- DPV1 embedded in the **Brad**Communications USB100PFB interface (firmware feature).
- Could support the use of several **Brad**Communications USB100PFB interfaces.
- Profibus DP protocol features: DPV1 Master Class 2.
- Driver for Windows operating system 32 bits (Windows XP and Windows 2003 Server).
- CommDTM. The device DTMs use the CommDTM to access to the Profibus devices.
- Documentations in English in PDF and chm files.
- Diagnostic tool.

2.5 Software installation

BradCommunications PROFIBUS USB software comes on CD-ROM.

The Woodhead Profibus CD-ROM starts automatically. Once your operating system is running, the **CD-Browser** navigation application will start automatically as soon as you insert the CD-Rom in the drive.

From the CD-Browser, you can access notably to the following options:

- Installation of the CommDTM **BradCommunications** PROFIBUS USB software.
- Consultation of the product documentation.
- Scan the content of the CD-ROM
- Access the Woodhead Web sites (if your PC has an Internet connection)
- Address details of the international subsidiaries, distributors and retailers of Woodhead Software & Electronics products



Note

The CD-Browser can be started by running **setup.exe**, in the root directory of the CD-ROM.

2.5.1 Prerequisites

- The Woodhead Profibus hardware solution is only compatible with Microsoft **Windows XP and Windows 2003 Server**.
- The computer must either have its own CD-ROM drive or have a network connection to a computer with the CD-ROM drive.
- The user session opened must be "**Administrator**". (Consult your network administrator otherwise.)
- All your applications must be closed before starting the installation process.

2.5.2 Installation procedure

To install the product on your computer, proceed as follows:

- Start Windows (XP and Windows 2003 Server)
- Open an administrator session
- Insert the Woodhead Profibus CD-ROM. The CD-Browser will start automatically otherwise start Setup.exe in the root directory.
- Select the product installation section. Then select CommDTM. The program now runs and the CD-Browser closes automatically.
- Follow the steps of the installation program.



Note

The setup will deinstall a previous version, if present. You cannot continue the installation process until it has been deinstalled.

2.5.3 Maintenance mode

The installation program starts automatically in this mode if the present version is already installed on the machine. In this case, you have a choice of three maintenance options:

- **Modify** (1): to add or delete product components.
- **Repair** (2): to repeat the last installation carried out.
- **Delete** (3): to completely deinstall the product.

2.5.3.1 Repair mode

Repair mode is used to repeat the last installation carried out. Run this option when the product no longer operates due to an accidental action, for example:

- .dll, .exe, etc. files deleted
- Registry damaged
- ...

Repair mode reinstalls the product as during the initial installation.



Caution

If an service pack has been installed, after executing repair mode **you must reinstall the service pack.**

2.5.3.2 Driver installation

After software installation, first time you will plug a **BradCommunications** USB100PFB interface, Operating system will ask you to install the driver. To do this just click on button of every window as indicated below:



Click on “**No, not this time**” then on “**Next >**”



Click on “**Install the software automatically (Recommend)**” then “**Next>**”



Click on "**Continue Anyway**"



Click on "**Finish**"

Now you can use the commDTM.

3 Support

Appendix Sections:

- Reference Documents
- Technical Support

3.1 Reference Documents

For information on Profibus, refer to one of the following:

- Profibus standard DIN 19 245 parts 1 and 3. Part 1 describes the low-level protocol and electrical characteristics and Part 3 describes DP.
- European Standard EN 50170

3.2 Technical Support

Please ensure that you have the following information readily available before calling for technical support:

- Computer's make, model and hardware configuration
- Operating system type and version
- Details of the problem you are experiencing: application module type and version, target network, and circumstances that may have caused the problem
- Diag.log file which contains informations about the **Brad**Communications USB100PFB.
 - To do this, close any application which uses the interface.
 - Run Diagnostic.exe from the install directory. In the menu, choose "9. Write information in Diag.log" . The Diag.log will be created in the install directory.

3.2.1 Getting Help

Technical support is available during regular business hours by telephone, fax or email from any Woodhead Software & Electronics office see [contacts](#), or from <http://www.woodhead.com/>.

Documentation and software updates are also available on the Web site.

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