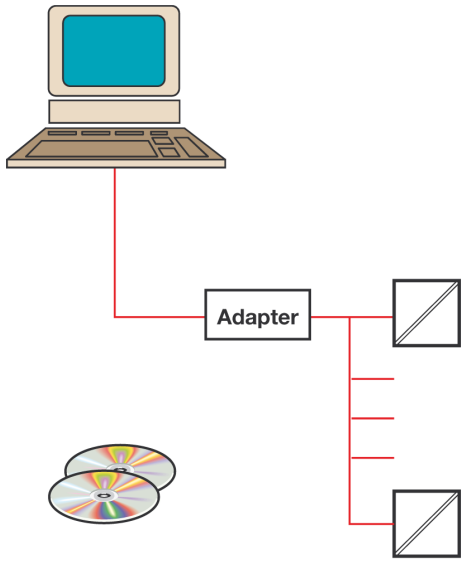
Data Sheet 10/63-6.31-EN Rev. C

PROFIBUS Adapters



PROFIBUS DP/PC adapters
— USB

NDA121-NO PROFIBUS DP/PC USB adapter

Adapter

Desktop PC's as well as notebook devices without PROFIBUS USB interfaces can be made PROFIBUS stations within seconds based on the plug & play features of the interface NDA121-NO. Operational areas are mobile set-up and configuration of field devices. The device is bus powered, thus not depending on external power connections.

The interface supports the Master functionality of the PROFIBUS Standards DP (class 1 and 2), DP-V1 (class 2). Its high transmission rate of up to 12 Mbit/s is especially of interest for fast applications in the manufacturing process like drive set-up and diagnosis.

Software

The delivery contents includes the universal PROFIBUS driver for Windows operating systems. The installed operating system is detected automatically by the driver DLL.

Further more a Device Type Manager (DTM) compliant to the current FDT specification version 1.2.1, incl. license key, is included.

Device Type Manager for PROFIBUS Networks (optional)
The software package PROFIBUS FDT consists of three components:

- CommunicationDTM **CommDTM** for NDA121-NO
- Generic DeviceDTM **DeviceDTM** for basic access to any DP/V1 device
- Test software Miniframe

Technical data	NDA121-NO
PC Interface	USB
Operational Area	mobile / stationary
Controller	MC 68302, ASPC2
Dual Ported RAM	16 kByte
Connectors	1 RS 485
Fieldbus protocols	PROFIBUS DP (Class 1 + 2) and DP-V1 Master (Class 2)
DTM	PROFIBUS DP-V1
Transmission rate	9,6 kbit/s...12 Mbit/s
Operating system	Windows 7, Vista, XP and 2000 (32-bit versions only)
Certification	CE
Delivery contents	Hardware, Driver, Configuration and Test Software, CommDTM, DeviceDTM, Miniframe, DTM License key, Documentation on CD, USB cable

CommDTM

The Device Type Manager CommDTM provides access to the PROFIBUS Master NDA121-NO. Within the FDT architecture, the CommunicationDTM enables DeviceDTMs to connect to their respective devices via PROFIBUS DP/-V1.

The DTM is compliant to the current version 1.2.1 of the FDT standard. It is responsible for the management and configuration of the communication device. Based on the CommChannel provided by the CommDTM the DeviceDTMs can handle the engineering and commissioning task for a remote device from one central workplace.

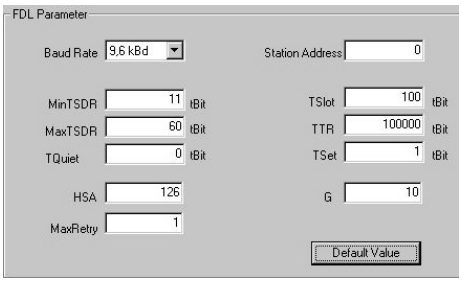
The Communication DTM CommDTM contains all communication device specific functions. The configuration parameters of the communication device can be accessed through a set of property pages which are embedded into an ActiveX control. No additional proprietary configuration software is needed for the setting of the communication properties of the device.

DeviceDTM

The Device Type Manager DeviceDTM enables the configuration of field devices which are not provided with a DTM. It offers on a generic level general functions according the PROFIBUS protocol DP-V1. Data of a chosen field device can be read and changed.

Miniframe

The FDT Miniframe is a simple run-time environment for the test of the communication capabilities of customer DeviceDTMs.



Ordering information

PROFIBUS DP / PC adapter	Catalog No.			
NDA121-NO (1102-2-31) PROFIBUS DP / PC USB adapter to connect a ABB tool to one PROFIBUS line via PC / Notebook, for Windows 7, Vista, XP and 2000 (32-bit versions), max. transmission rate 12 Mbit/s, incl. standard driver and CommDTM (FDT 1.2.1), DTM license key, USB cable and manual (*.pdf).	63631-9890002			

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