

DPA RF Wireless Version Quick Start Guide

This guide explains basic DPA product installation. Refer to the manual on the installation CD for more details.

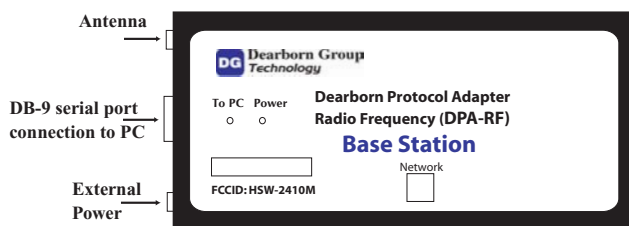
Package Contents

- DPA RF Base Station Hardware Adapter
- DPA RF Remote Station Hardware Adapter
- Diagnostics "Y" cable (DB-15 to 6-pin and 9-pin Deutsch truck diagnostic connector)
- RS-232 serial cable (for Base station to PC connection)
- AC Power supply cube (12 vdc output voltage)
- DG Installation CD-ROM with the following content:
 - DPA Native Drivers
 - DPA RP1210A Drivers
 - Sample RP1210A application
 - Other debugging applications
 - DPA User's Manual (as a PDF file)

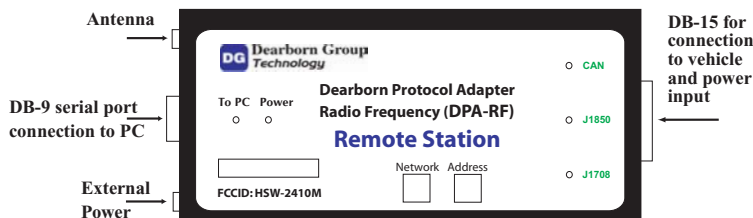
Hardware Layout

The following illustrations identify key components of the DPA RF Base Station and the DPA RF Remote Station Hardware Adapters. **Note:** Because each Base Station and Remote Station pair operate as a *matched set*, they both must contain the same "Network" ID. Verify this "Network" ID value is identical on both units before proceeding.

DPA RF Base Station



DPA RF Remote Station



A. Connecting the DPAs

To use the DPA RF set do the following:

Connect the DPA Base Station to PC:

1. For PC communications, connect the included RS-232 cable to the serial port connector (9-pin) on the DPA Base Station and the serial port of the PC. Also connect the RF antenna and power supply source.

Connect the DPA Remote Station to Truck (or vehicle):

2. If using an optional DG cable, connect one end to the DB15 (15-pin) connector of the DPA and the other end to the truck (or other vehicle) diagnostic Deutsch connector. Power and vehicle network connection is supplied through this connector.

The DPA can also obtain power from an external source that can deliver 9-32 VDC, 850 mA. Pinout information for the specific DPA version (reference the endplate label) is available in Appendix D of the DPA Family Manual (included on the *DG Installation* CD-ROM).

If the RF antennas are not attached to the Remote and Base DPA stations, connect them at this time.

B. Installing the Software

The DPA package includes a *DG Installation* CD-ROM with the program files needed to operate and use this product.

To install the DPA Program:

1. Insert the *DG Installation* CD-ROM into your CD-ROM drive. This will automatically start the "Dearborn Protocol Adapter Installation" application. The **Dearborn Protocol Adapter Installation: – Main Menu** screen appears. **Note:** If the installation program does not automatically start running, use Windows Explorer to locate the file named **DPAInstall.EXE** on your CD-ROM drive. Double-click (i.e., open) this file to start the installation.
2. Select the software driver(s) you need.
 - a. **For OEM Truck Customers** – running truck/service bay/OEM diagnostic software, click **Install Dearborn Protocol Adapter RP1210a Drivers** (most users will choose this option). This displays the *RP1210a Drivers* dialog. Click **Install RP1210a Drivers for Serial or USB DPAs**. The *Dearborn Group DG1210* install screen appears. Click **Next**. In the *Select Components* dialog, click **Next**. In the *Backups Replaced* dialog, click **Next**. In each of the following two *Replace Files* dialog, select **Yes** to install the files. Click **Finish**. You must restart your computer to complete the installation.
 - b. **For Other Customers** – running Dearborn Group specific software such as DLM or writing a DPA specific application, click **Install Dearborn Protocol Adapter Native Drivers**. The *Dearborn Protocol Adapter 8x Drivers* install screen appears. Click **Next**. In the *Destination Location* dialog, click **Next**. In the *Select Components* dialog, click **Next**. In each of the following two *Replace Files* dialog, select **Yes**. Click **Finish**. You must restart your computer to complete the installation.

C. Troubleshooting

Common problems and solutions are included in this topic. Pinout information for the DPA version (reference the endplate label on the DPA) is available in Appendix D of the DPA Family Manual (included on the DG Installation CD-ROM).

Cannot communicate with the DPA

Problem: Unable to communicate with the DPA Hardware Interface.

Solution: Check power source. All LEDs need to come on when power is initially applied. The "Power" light should stay on.

Cannot communicate with the bus

Problem: No bus communications.

Solution: Verify cable connections are secure and correctly terminated. Verify bus LEDs on DPA Hardware Interface are illuminated after you call ClientConnect() (RP1210a drivers) or InitDataLink() (native driver) for the specified data link. The DPA II Plus and DPA III Plus powers-up with data links initialized, if there is data link activity then one or more of the corresponding data link lights should continue blinking.

To Run a Debugging Application:

1. On the install CD-ROM, click **Run a Debugging Application** to display the *Run a Debugging Application* dialog. Select the desired option:
 - a. **CheckDPA** – Click this button to verify that you can communicate with the DPA via the native drivers. Note: you must have a copy of the native drivers installed in your default path (system directory) for this application to run. The program asks for DPA type, "com" port and baud rate.
 - b. **GetDG121032 DLL Versions** – Click this button to display and log all 1210 driver versions on your computer.
 - c. **Get Native DLL versions** – Click this button to display and log all DPA native driver versions on your computer.

D. View / Print Documents

On the install CD-ROM, click **View a Document** to open the dialog. Select the desired "Dearborn Group Documents" to view. The selections include:

- DPA II Plus, III, III Plus, 4, RF Manual
- DPA Troubleshooting Guides
- DPA /I Manual

Each document is in PDF format so the computer must have a copy of Adobe Acrobat Reader to view these documents.

Note: to get copies of this quickstart card, click **DPA Troubleshooting Guides**. This displays the *Troubleshooting Guides* dialog. Select the desired guide to view. The selections include:

- Data Link Monitor (DLM) Application
- DPA II Plus and DPA III Plus RS-232
- DPA III ISA or PC-104
- DPA 4 USB
- DPA RF
- DPA /I

E. Install Application

On the install CD-ROM, click **Install an Application** to display the *Install an Application* dialog. Select the desired application to install.

F. DPA Accessories

You can obtain the following optional accessories for your DPA.

- DG-J1939-04-CABLE: 'Y' cable to connect the DPA RF Remote Station hardware to the Deutsch 6-pin and 9-pin truck connectors
DG-OBDDII-O-CABLE: 6' open-ended OBDDII cable
DG-HARDWARE-KIT: Set of two rubber end brackets for mounting and "slip-proofing" DPA
DG-DLM: Windows 32-bit monitoring software with data dictionaries

G. Power Caution

The diagnostic 'Y' cable (available from Dearborn Group) normally supplies the DPA RF *Remote Station* with power. However, the Remote Station can also be powered by a suitable voltage source (i.e., AC power adapter that provides 9-32 VDC, 850 mA) when used on a test bench.

Caution: Concurrent use of two separate power sources for the DPA RF *Remote Station* is not recommended as it may result in non-warranty damage.

H. Contacting Technical Support

You can contact Dearborn Group's technical support using any of the following methods.

Phone: (248) 488-2080
Fax: (248) 488-2082
email: techsupp@dgtech.com



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Farmington Hills, MI 48331