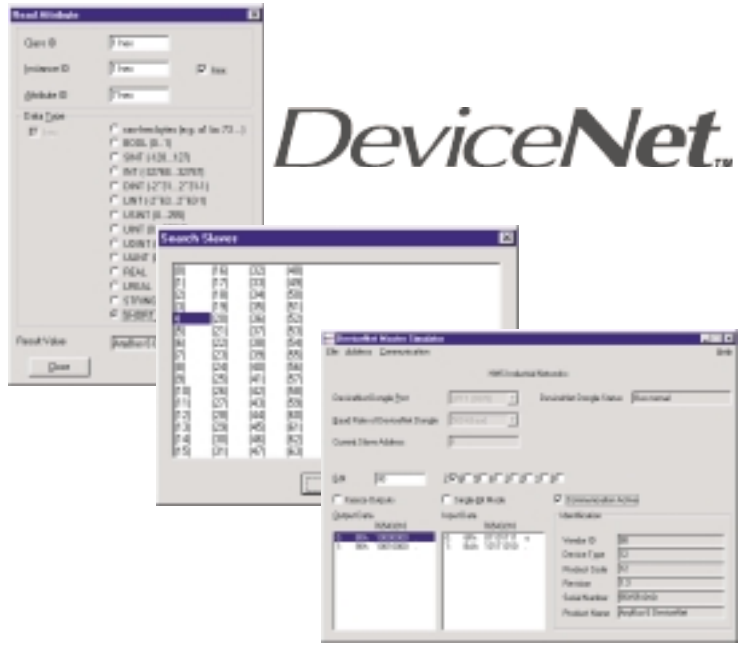


# DeviceNet Master Simulator



**Software**

PC-based Master Simulation Software for Windows 9x, NT, 2000

**Hardware**

USB Adapter to convert USB into the standard DeviceNet bus signals

**Power Supply**

The adapter is powered from the USB port. USB connection cable included

**Baudrate**

All standard DeviceNet baudrates 125, 250 and 500 kbit/s

**Accessories**

DeviceNet wiring and installation kit available

The DeviceNet Master Simulator is an easy to use tool for setup and test of DeviceNet slaves. The user friendly software enables simple functional tests of field devices with DeviceNet interface. Even users without detailed DeviceNet knowledge can in example immediately set or reset I/O signals of a DeviceNet enabled I/O block or valve terminal. The Master Simulator can be used during setup of a DeviceNet network as well as for the final testing of the DeviceNet interface during series production and quality control of field devices. For these purposes, the Master Simulator is a low-cost alternative to expensive DeviceNet PC-cards and individual test software.

The Master Simulator is a simple software tool which permits many test functions for nearly all DeviceNet slaves from different manufacturers. The network scan function automatically detects and identifies all operational slaves in a DeviceNet network; even if the normally required EDS file is not available. Any DeviceNet Slave can be set into operation and afterwards clear and user friendly dialog boxes are used to exchange cyclic I/O data or acyclic explicit messages between the DeviceNet Slave and the Simulator.

The Master Simulator consist of a Windows based Software tool and a DeviceNet interface circuitry (Dongle). The Dongle is plugged into the USB port of the PC and provides on the other side a 9-pin D-Sub connector as the DeviceNet Interface. The Dongle is powered from USB port. To connect a DeviceNet Slave, a DeviceNet cable and additionally the 24 Volt DeviceNet power supply is required. These components are recommended accessories and are not included in the scope of supply.

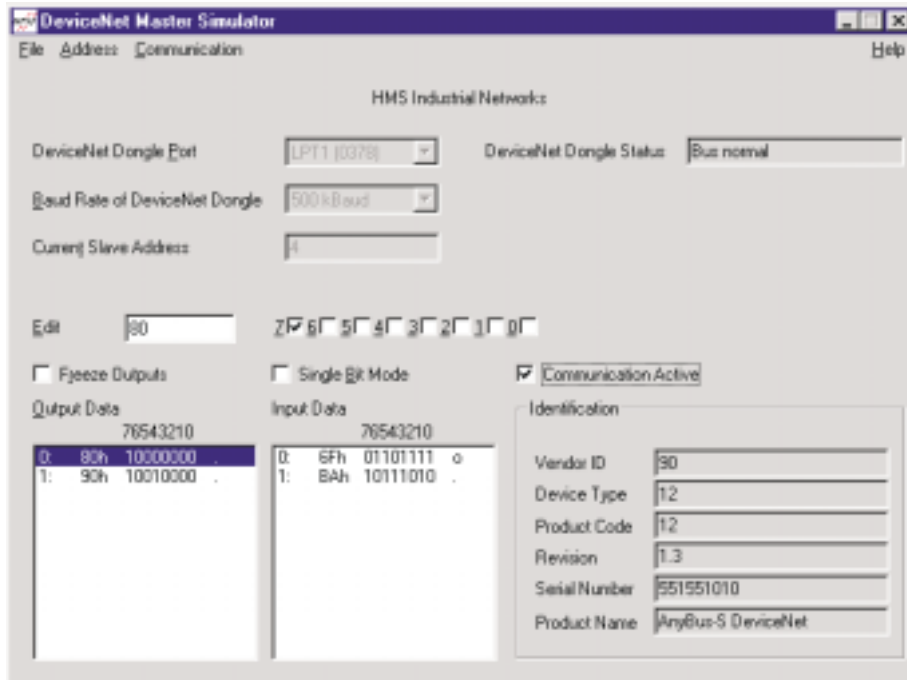
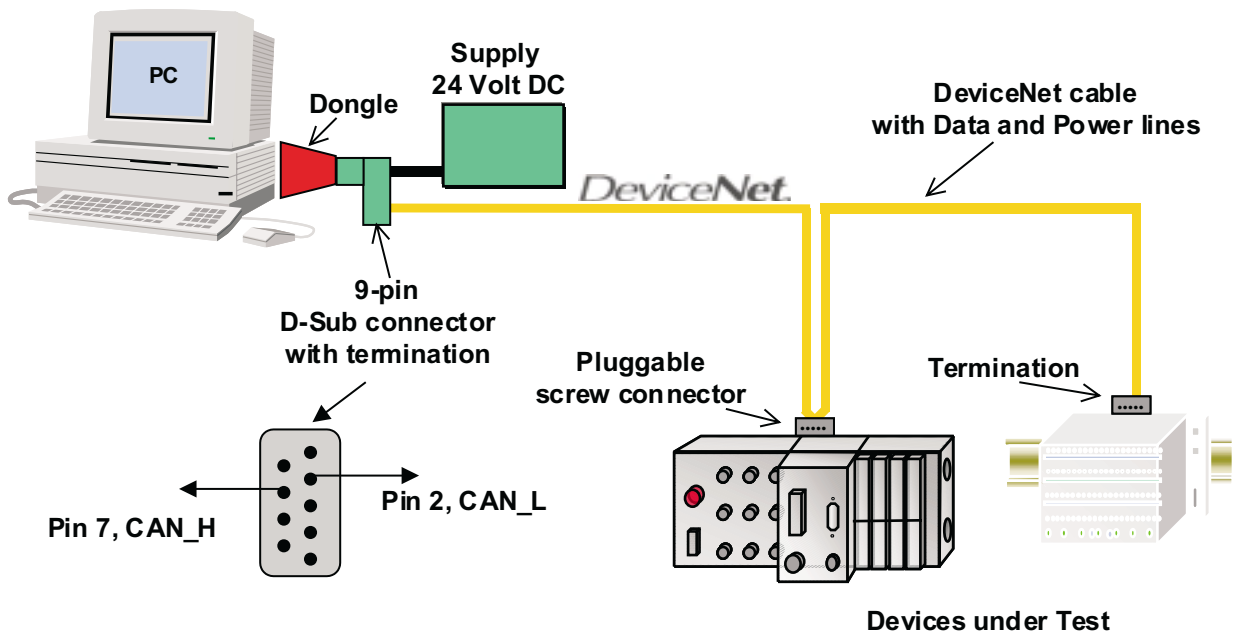
**Ordering Information**

- DEV-SIM      DeviceNet Master Simulator Software for PC or Laptops under Windows including the DeviceNet circuitry (Dongle) Manual and Software in English and German included.
- DEV-CK      Cable Kit consisting of 2 m thin DeviceNet cable with one 9-pin D-Sub and one 5-pin pluggable screw connecto power supply cable, bus termination.
- PDP-SIM      A similar Master Simulator is available for Profibus-DP



## System Configuration

A typical test environment is shown in the figure below. The DeviceNet dongle is directly connected to the parallel USB Port of the PC. The 9-pin D-Sub connector is used to connect the DeviceNet cable which contains 2 data and 2 power lines. The 24 Volt operating power shall be supplied by an external supply.



After starting the Master Simulator, the baudrate should be selected and then the search function should be used to search for operational slaves on the bus. After one Slave is selected, the Main Window can be used to read and write cyclic Input or Output Data or access the attributes of the Slave with explicit messaging. Output Data can be written bitwise, which allows easy testing of the signal wiring of field devices such as I/O blocks or valve terminals.

The Master Simulator automatically reads the device identification and displays all relevant data such as vendor ID, device type, product code, revision, serial number and product name. EDS files are not necessary.

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