PK-Port

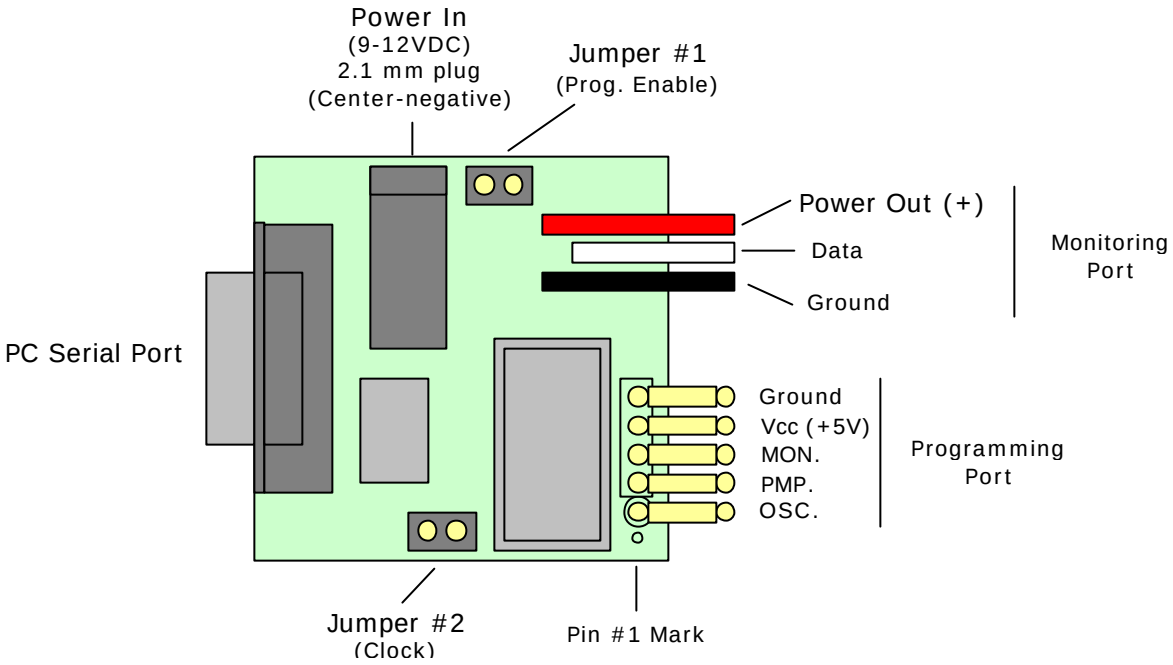
Device Programmer & Monitor

DOCUMENT VERSION 1.0.0 – September 2003

DESCRIPTION

PK-PORT is a communications adapter used to monitor the internal performance of and/or to in-circuit re-program Neodym *Janus*™ and *PowerKnowz*™ gas detectors.

The PK-PORT "dongle" is intended for use in conjunction with two proprietary Windows PC application programs: PK-PORT.EXE for device monitoring, and NeoBoost.exe for device reprogramming. Both of these programs are available for download from the "Support" section of neosafe.com



TOP VIEW (Component Side)

MONITORING

IMPORTANT NOTICE: USE ONLY WITH WIDE INPUT SUPPLY (7-40VDC) DEVICES

(The jumper settings are irrelevant when the Monitoring Port is used)

1. Connect the serial port to a Windows PC COM port using a DB-9 male to DB-9 female cable.

2. Connect the Monitoring Port to the *Janus*™ or *PowerKnowz*™ device to be monitored. (Please note that the target device will receive its power from the dongle.)

3. Connect the power to the dongle using the AC adapter provided or another 9-to-12 VDC 300mA (min.) power source.

4. Run PK-PORT.EXE

5. If necessary, change the PK-PORT COM port setting to match the COM port that is physically in use. To make the change permanent, edit the "CP" parameter in PKPORT.CFG.

IN-CIRCUIT PROGRAMMING

(APPLIES TO 5VDC AND 7-40VDC INPUT VOLTAGE DEVICES)

1. Make sure that Jumper #1 (Prog. Enable) is in place.

2. Unless instructed otherwise by Neodym, make sure that Jumper #2 (Clock) is in place.

3. Connect the Programming Port to the *Janus*™ or *PowerKnowz*™ device to be programmed.

   IMPORTANT: Please make sure that pin #1 of the dongle lines up with pin #1 of the device. Pin #1 is marked with a small circle on the circuit boards. Please make sure that all connector pins fit snugly and make good electrical contact.

4. Connect the power to the dongle using the AC adapter provided or another 9-to-12 VDC 300mA (min.) power source. (*PowerKnowz*™ devices with audio transducers may sound continuously during this procedure.)

5. Run NeoBoost.exe and specify the correct HEX file as instructed by Neodym.

6. After programming is complete, first remove power to the dongle and only then remove the programming port connector.