

VAMP

PROTECTION RELAYS AND ARC PROTECTION

INSTRUCTION - FIRMWARE UPDATE

Following detailed instructions describes step by step firmware updating procedure for VAMP products.

Before firmware updating:

- It is highly recommended to download and save device settings before starting the firmware updating.
- Please, be aware that device is not functional during updating. Protection stages are not operational and output relays may change it status during the updating process.
- Please, be aware that communication protocols are not functional during updating process. Connections to SCADA system will be lost during the updating process.

During firmware update:

- Do not turn off the supply voltage for the device.
- Do not disconnect programming cable.

After firmware update:

- Always verify the parameters and settings of the relay after updating the firmware.
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1. Connect programming cable between device front port (on the face of the device) and computer.

Programming cables and adapters:

- VX003, RS-232 programming cable (for Vamp 200, Vamp 100 and Vamp 40-series devices.)

Order code: XV003-3 (Cable length 3 meters)

- USB to RS232 adapter (for VX003 serial cable).

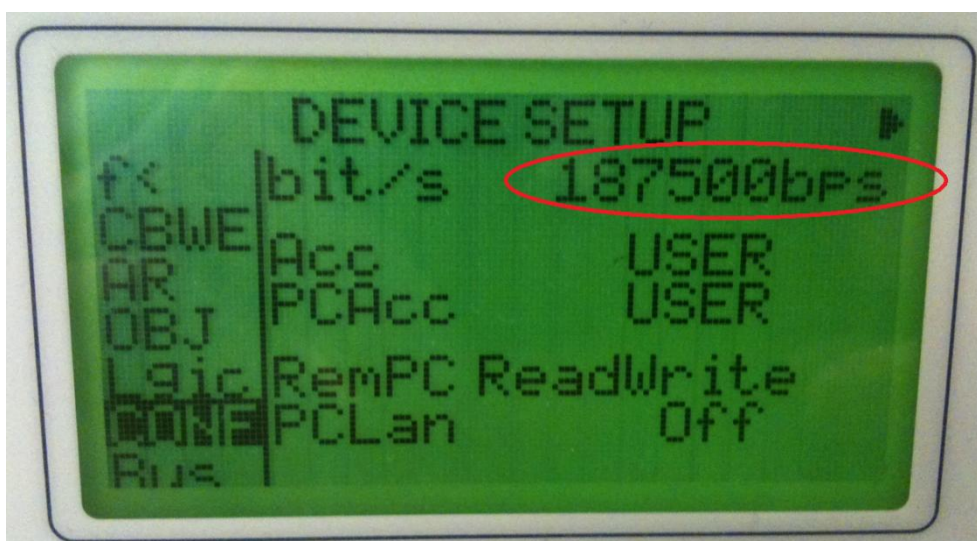
Order code: 3P025

- VX052, USB programming cable (for Vamp 300/321 and 50-series devices).

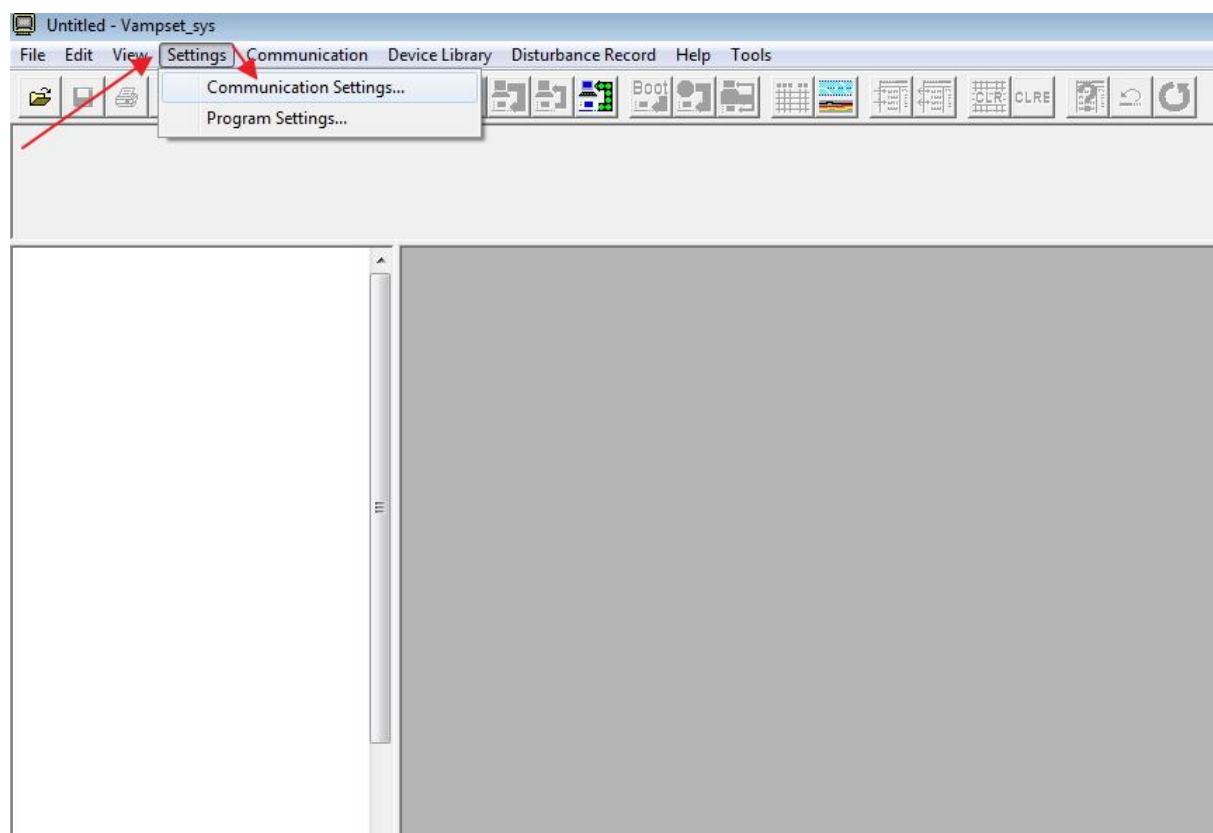
Order code: VX052-3

2. Verify communication speed parameter for the updated device and for Vampset configuration tool. Speed parameters in relay and Vampset have to be same.

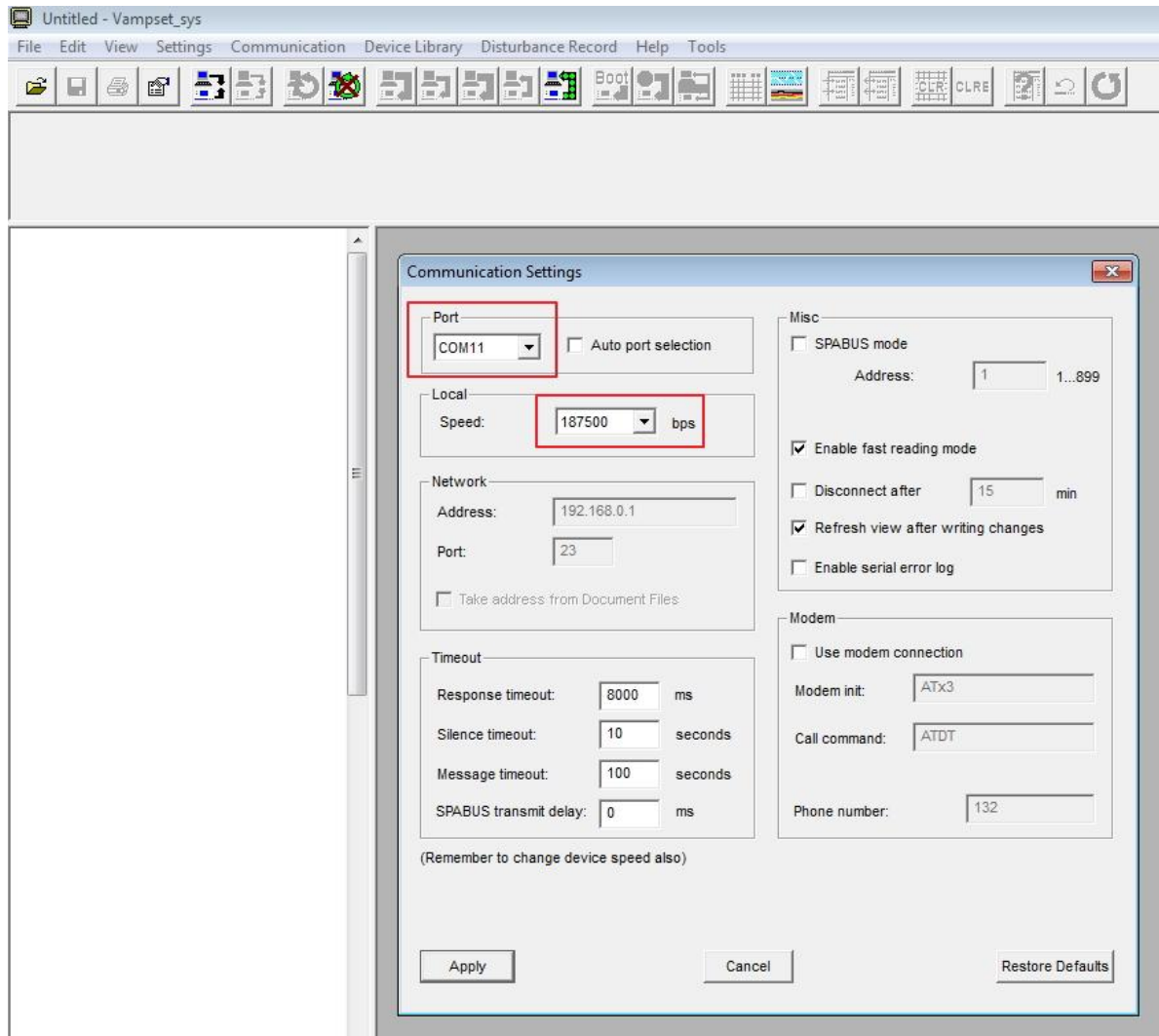
Communication speed parameter for relay can be verified and changed (if needed) from the local panel. Speed setting is located under the "conf" menu as shown in the picture below.



3. Start Vampset configuration tool. Go to "*setting*" menu and select "*communication settings*".



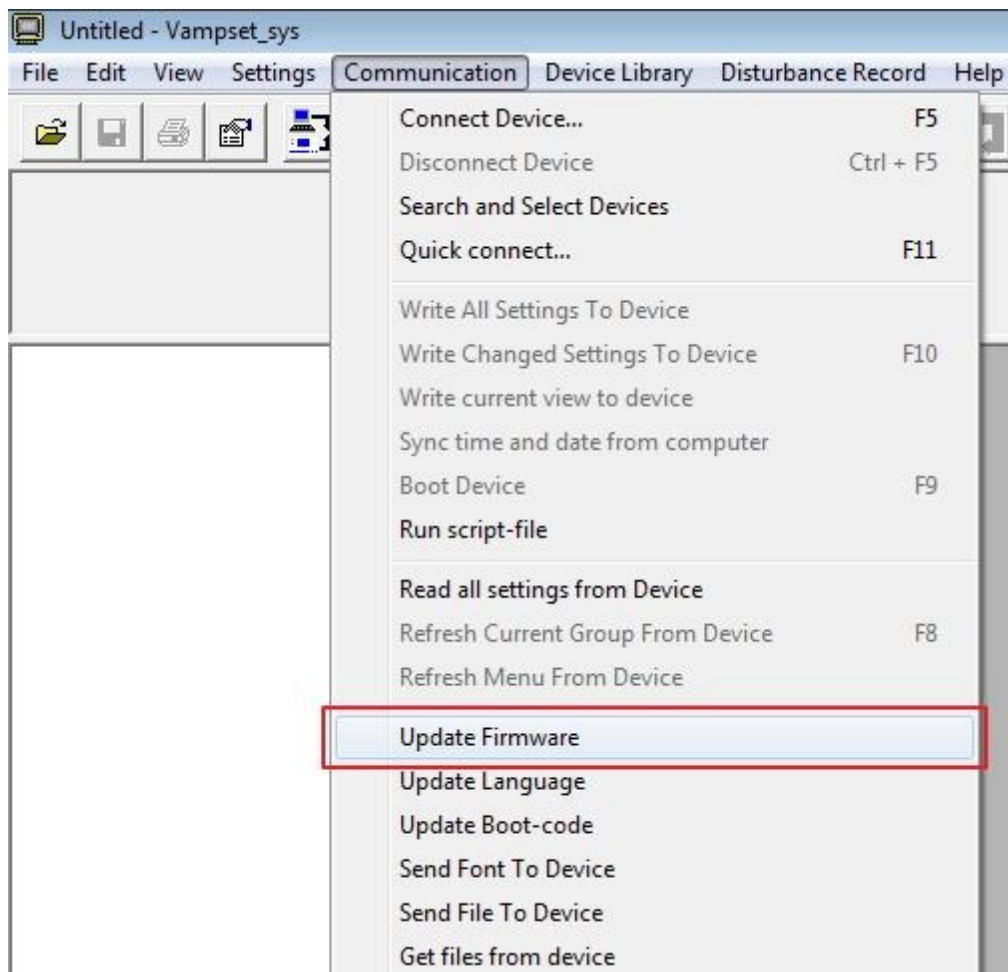
4. Set correct communication port and communication speed.



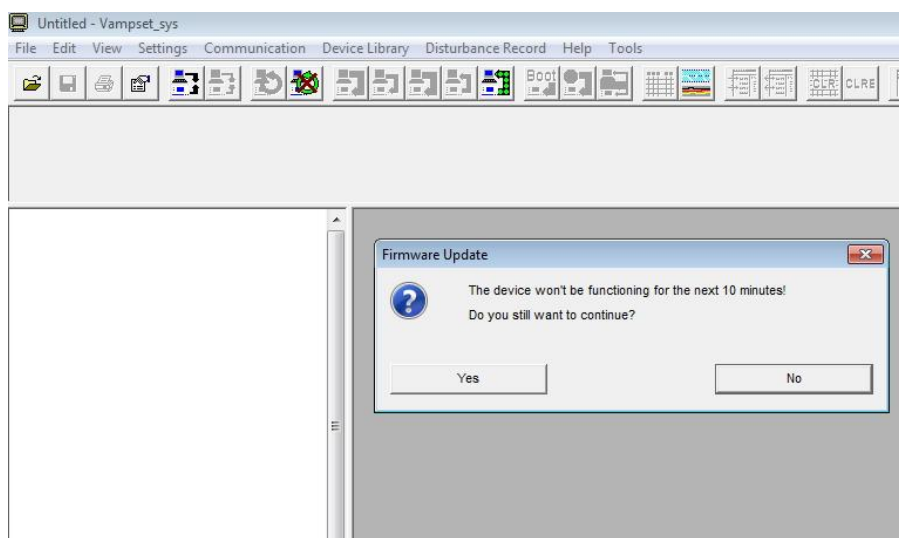
NOTICE!

- Using VX003 cable without USB to RS232 adapter maximum speed is 38400 bps.
- Using VX003 cable with USB to RS232 adapter maximum speed is 187500 bps.
- Device with firmware 6.xx and older, maximum speed is always 38400bps.
- VX052 USB programming cable maximum speed is 187500bps.

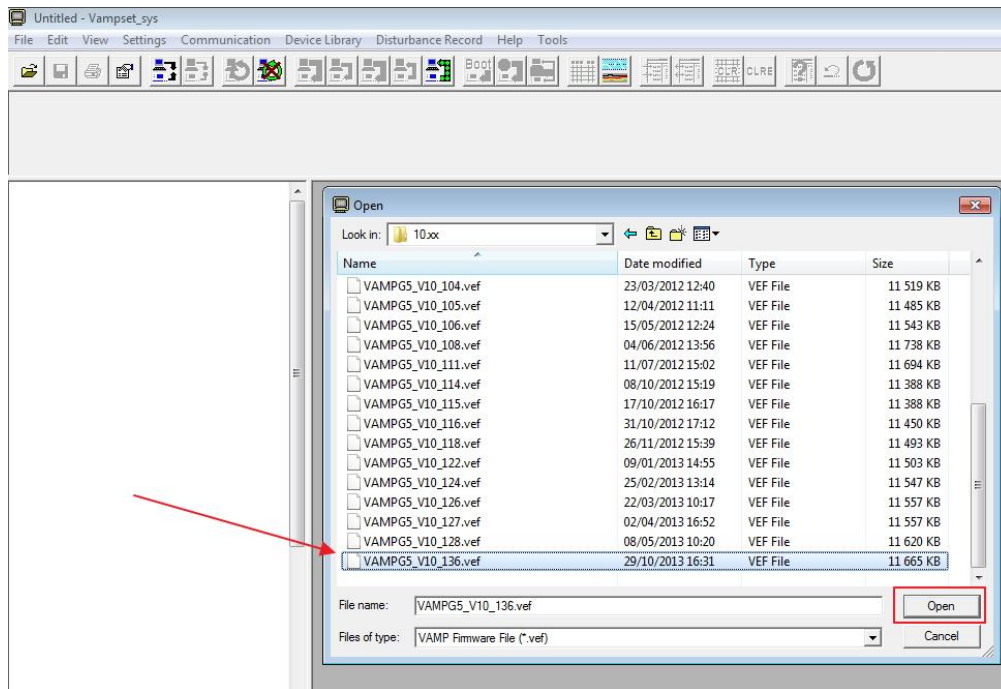
5. Open "*communication*" menu and select "*Update Firmware*".



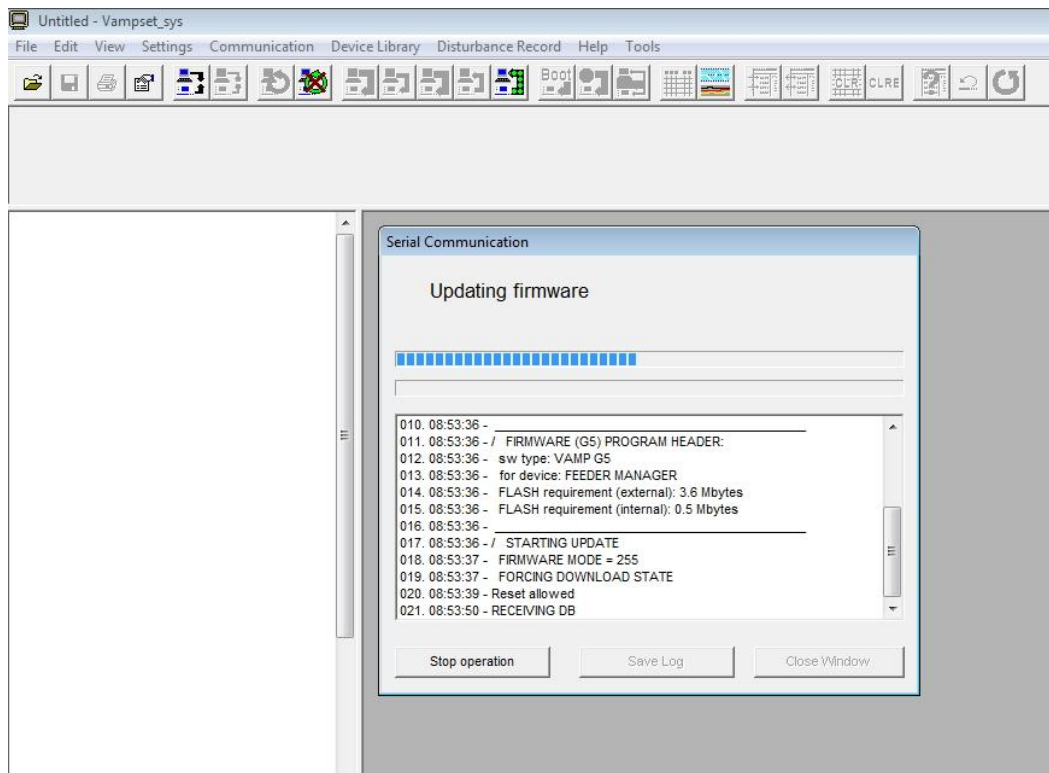
6. Confirm firmware updating by pressing "yes".



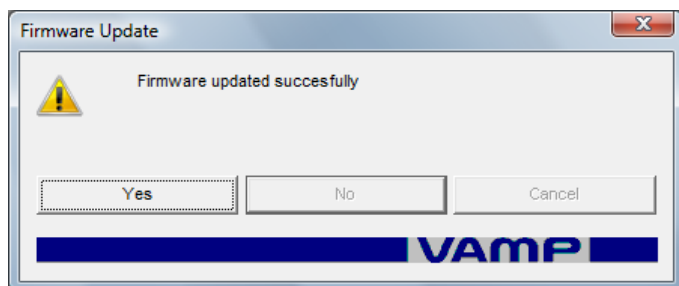
- Locate and select the file containing new firmware and press "open".



- Please wait until updating process is completed.



9. Confirm completion of firmware update by pressing "yes".

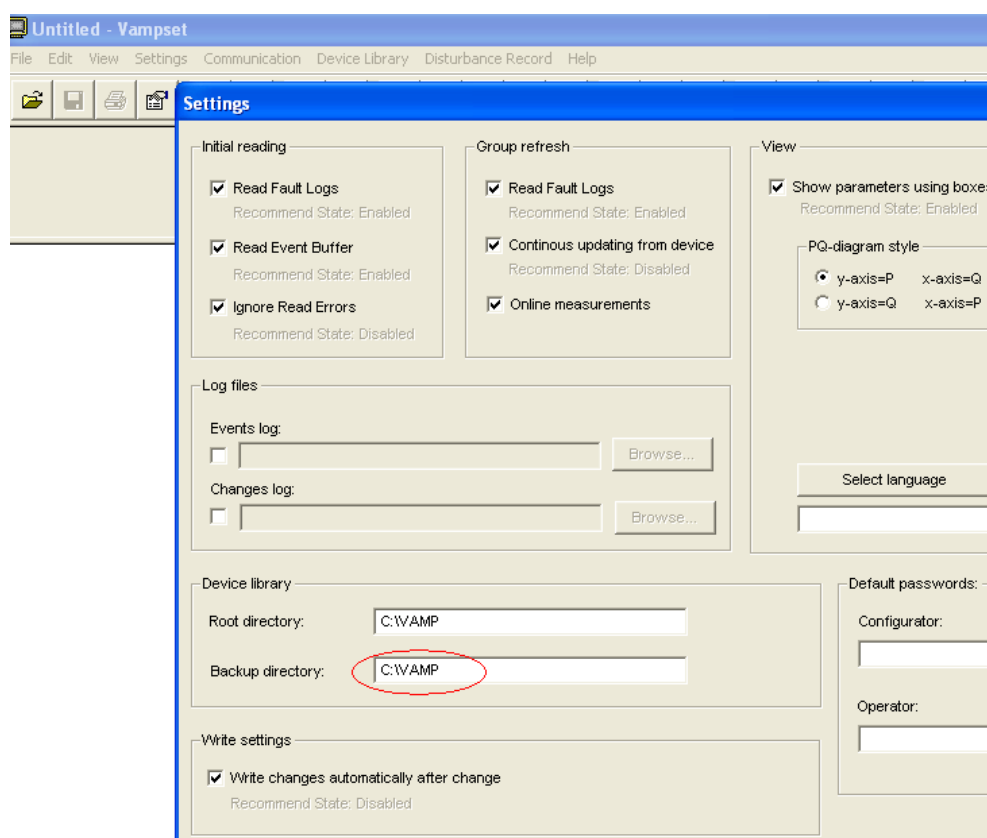


PROBLEMS DURING THE FIRMWARE UPDATE

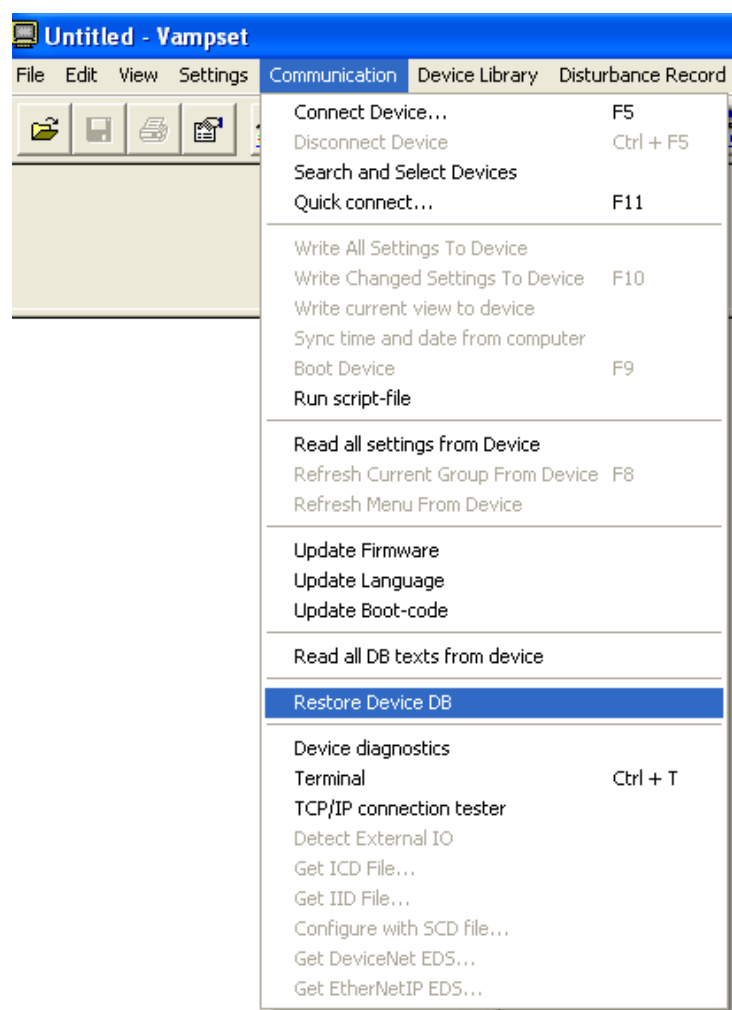
In case download process for some reasons is disturbed and download process stops, try start firmware update again. In case update process does not continue, change communication speed to 38400bps (if 187500bps was selected earlier) and try again.

In case of "Download DB-Data" text appears to the device screen, database of the device needs to be restored manually.

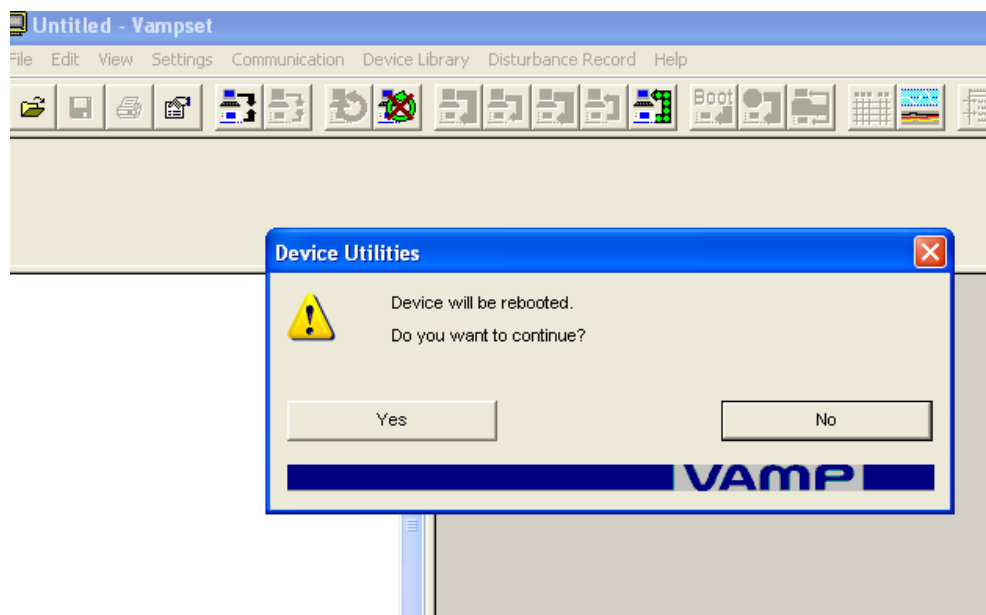
Default back-up directory for DB-data file is C:\VAMP



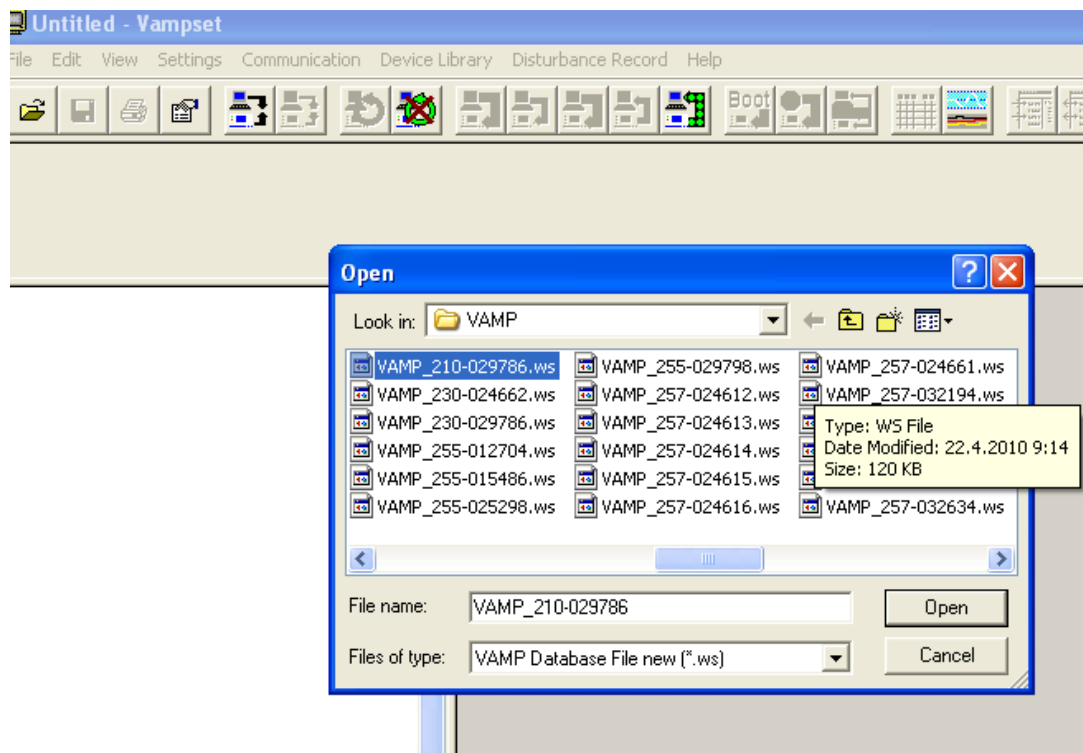
Choose "*restore device DB*" from the communication menu.



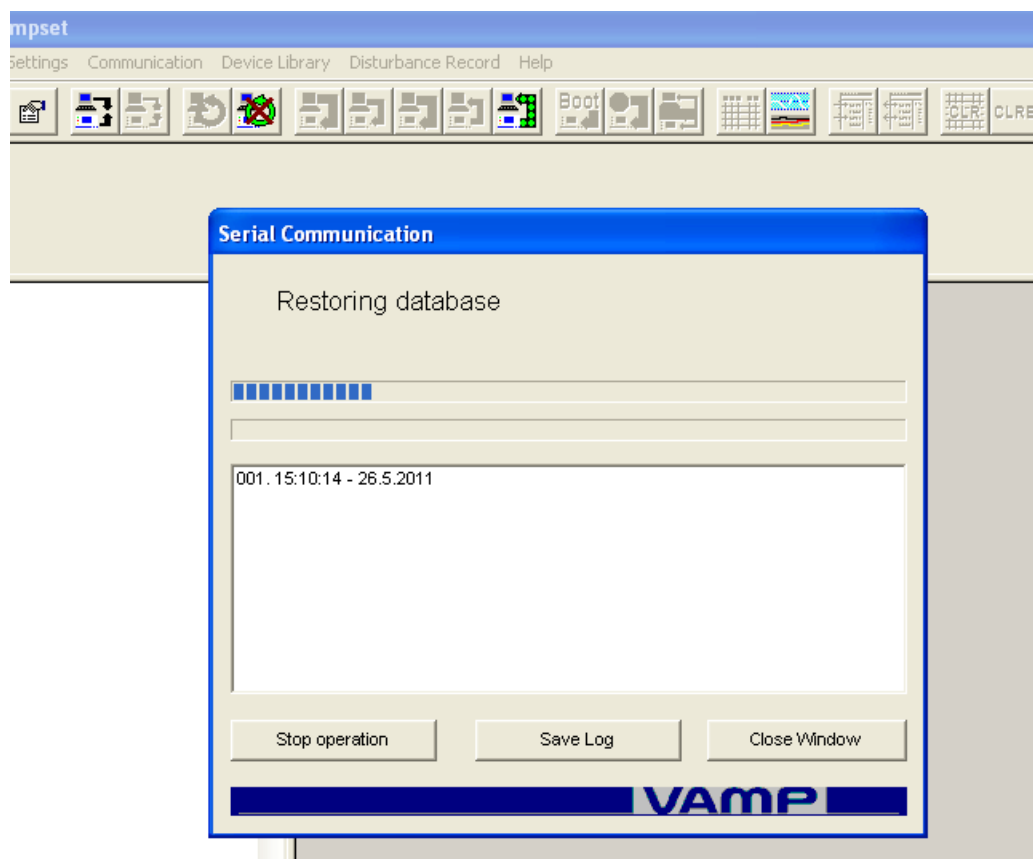
Click "yes" button to continue.



Choose relay's backup file from the list and click "open" button. (Compare file name to device type and serial number).



Vampset starts restoring the database. After completion of restoring, the relay will restart.



Notice!

If the relay is in state where Vampset communication cannot be established and script files are not working either, "Two button start" may solve the problem in some cases.

1. Push "up" and "down" arrow from the relays front panel and hold them down.
2. Switch OFF the auxiliary voltage.
3. Wait few seconds.
4. Switch auxiliary voltage back to ON.
5. Wait until relay starts and error led turns on.
6. Release "up" and "down" arrow buttons.
7. Download software to the relay with normal procedure. (Speed must be set to 38400 bps).

Choose "program settings" from the settings menu. Backup directory shows path where database file (xxxxxxx.ws) is saved by default.

NOTICE!

Limitations for firmware update:

- Version 4.xx-6.xx firmware cannot be updated to 10.xx firmware.
- Version 4.xx-6.72 firmware can be updated to latest 6.xx firmware.
- Version 4.xx firmware should be updated via 6.74 to the latest 6.xx firmware. Firmware update straight from version 4.xx to latest is not recommended.
- Version 10.xx firmware can be updated to the latest 10.xx firmware without any limitations.
- 10.xx firmware cannot be downgraded to 6.xx firmware.

In case firmware is needed to be downgraded, please contact vamp technical support for further instructions.

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