

Application Note

AN-VTC-29

Upgrading the Motor control software using a PDA

Author: Ning Xu, Invertek Drives Ltd

Revision: 2.20 5 June 2006

· General:

To maximise flexibility and future compatibility, the Optidrive VTC has been designed to be upgradeable using its Infrared communication link and a Pocket PC installed with the OptiwandCE application software.

To be able to upgrade the motor control software, OptiwandCE Plus must be running on the Pocket PC and an official Optidrive VTC motor control upgrade software file must be present in the internal memory of the Pocket PC. The upgrade files are available periodically from Invertek Drives Ltd.

· Procedure:

Ensure that the drive is stopped and no enable signal is present on the User terminal strip.

In order to upgrade the motor control processor software, the user must set up the Optidrive VTC upgrade parameter correctly.

This requires access to a special parameter group (group 6). This is accessed by setting P1-14 = 702. The upgrade function is enabled by setting P6-01 = 2, then powering down the drive completely, then powered back up again.

When the drive is powered up again, the symbol "Prog.." will appear on the drive display. This means that motor control software upgrade function is enabled.

Before downloading the new software to the drive, make sure that you have the latest version of the upgrade file in your Pocket PC. Contact your distributor or Invertek Drives Ltd www.invertek.co.uk for more information.

Launch Optiwand CE on the Pocket PC. Tick the ***Enable Firmware Updates*** option in the ***Config*** menu. Click on the ***Upgrade Firmware*** icon (icon with a letter 'F').

Before starting the data transfer, make sure that the IR port of your Pocket PC is in the correct position – pointing at the IR window of the Optidrive Plus to ensure a better condition for the IR data transfer.

To start the software upgrade, select the correct file in the file list. A single click on the file name will start the upgrading. A progress indicator in the Pocket PC application window provides an indication as to how much of the file has been transferred. Usually data transfer will be complete within 20s approx.

When data transfer is completed, the drive will verify the integrity of the software and then upgrade itself automatically. The display will change to "dAtA-F", indicating that the parameter values have been set to default values. Press "StoP" to reset this message. The drive is now ready for parameter setup and for use.

If the data transfer procedure is interrupted for some reason, the OptiwandCE will try to re-send the last data frame several times in order to continue the upgrade operation. During this period, a message of "Comms lost..." will appear instead of the progress indicator, if the data communication link between Pocket PC and the drive cannot be re-established. After approx 10s, a "failed upgrade" message will be displayed in the Pocket PC application window.

Loss of communications is usually caused by poor signal strength (out of range or poor direction). If this error occurs then try to transfer the whole file again. If the problem persists, then please contact Invertek Drives Ltd for technical help.

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