

Instruction



Downloading Software

Part No 10063380 A

30-09-2011

Introduction

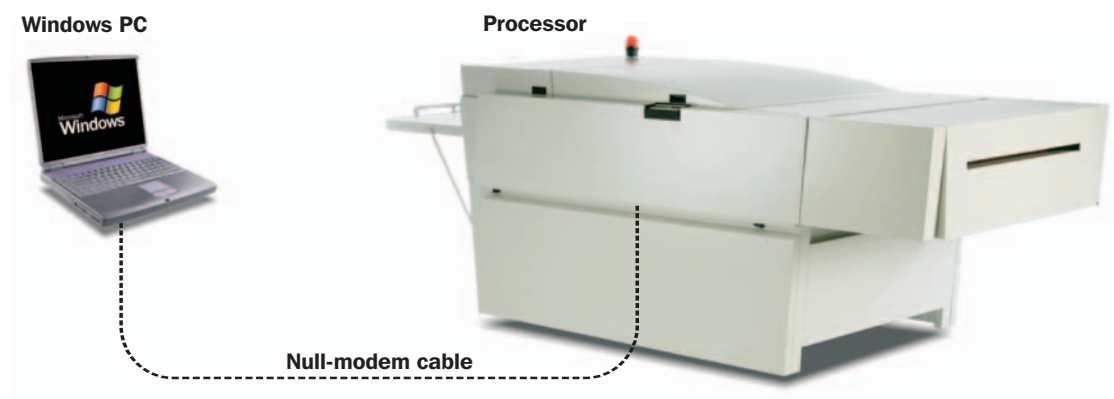
Scope

This instruction describes the downloading of software packages from www.glunz-jensen.com/support and applies to all GNUC-1 based processors.

General

All GNUC-1 based Glunz & Jensen processors can be upgraded with new software, if software has been modified or if new functionality has been added.

Software is upgraded by connecting a Windows PC to the processor using a Null-modem cable (see illustration below).



See "APPENDIX" later in this instruction for specifications of the Null-modem cable.

System Requirements

- Windows 98, ME, NT, XP, 2000.
- The PC should be a 386 or higher with an RS232 serial communication port (COM-port).

If no COM-port is available please refer to "APPENDIX" for description of USB support.

Download Procedure

i NOTE! Downloading of software should only be performed by qualified service personnel.

Preparations

Make registration of the existing software parameter values as described in the appropriate "Software Upgrade" instruction.

h CAUTION! This is very important since the configuration will typically be reset when new software is downloaded.

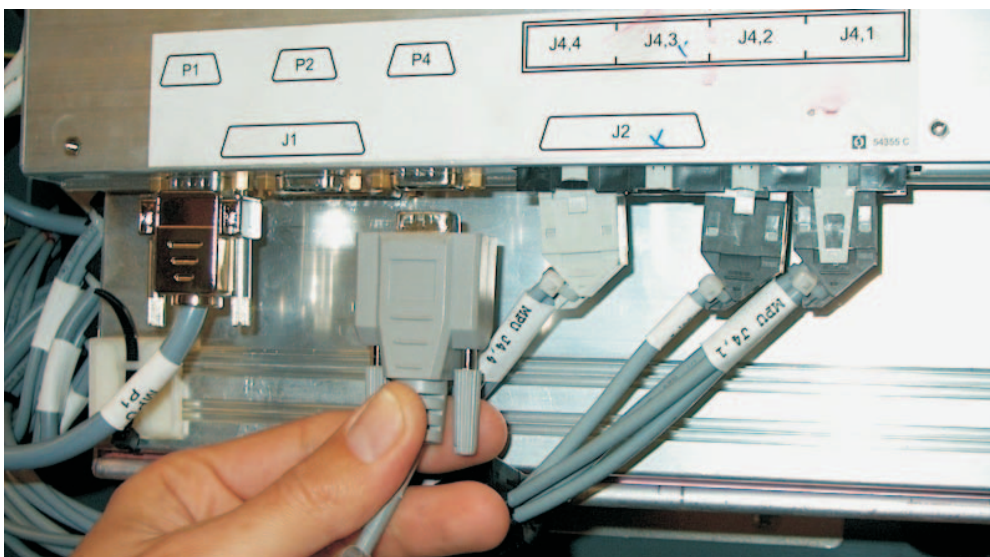
i NOTE! Software types which do not have values accessible from a control panel does not come with a "Software Upgrade" instruction.

Downloading

- Visit www.glunz-jensen.com/support.
- Enter the software download site.
If it is not clear which software to download, a table showing processor types will link to the correct software.

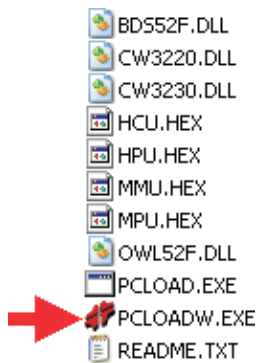
h It is of vital importance that the correct software file is chosen, otherwise the software will not match the processor.

- Copy the chosen software file to an empty folder on your PC. Unzip the file.
- Turn the processor's main switch to OFF.
- Connect the PC to the processor's 9-pin D-SUB plug named "P4" on the HPU-box using a Null-modem cable.

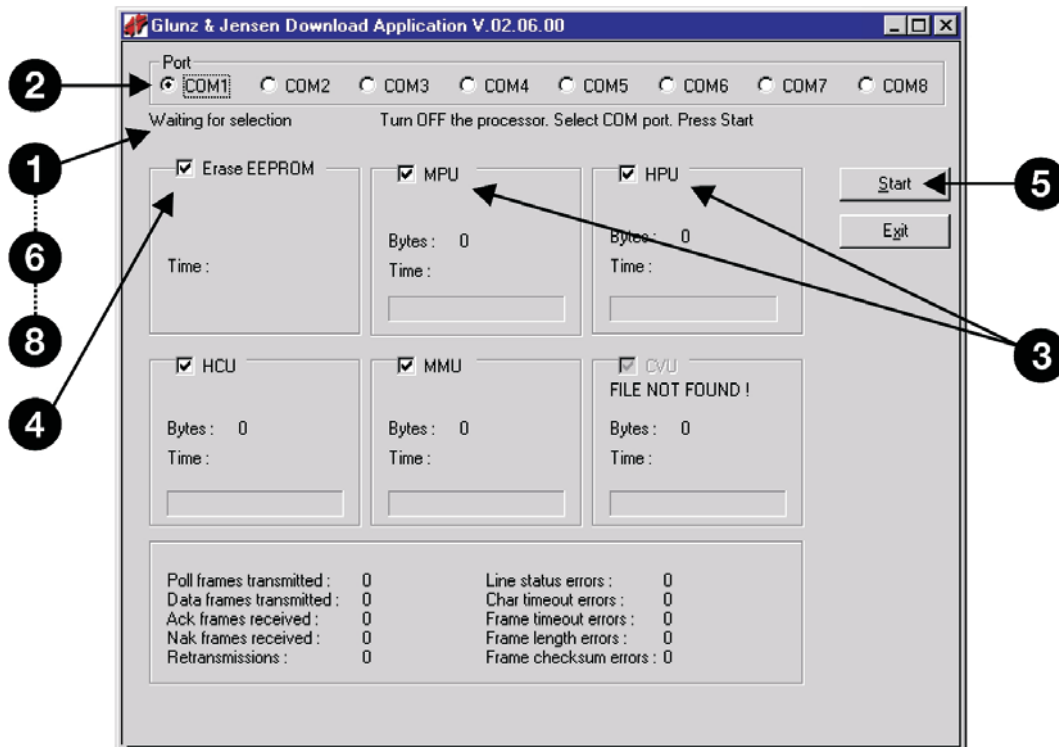


i NOTE! The specifications for the Null-modem cable are described in "APPENDIX" later in this folder.

- Connect an RS-485 terminator if necessary (see "APPENDIX" later in this folder for details).
- On your PC double-click the **PCLOADW.EXE** file to run the download application.

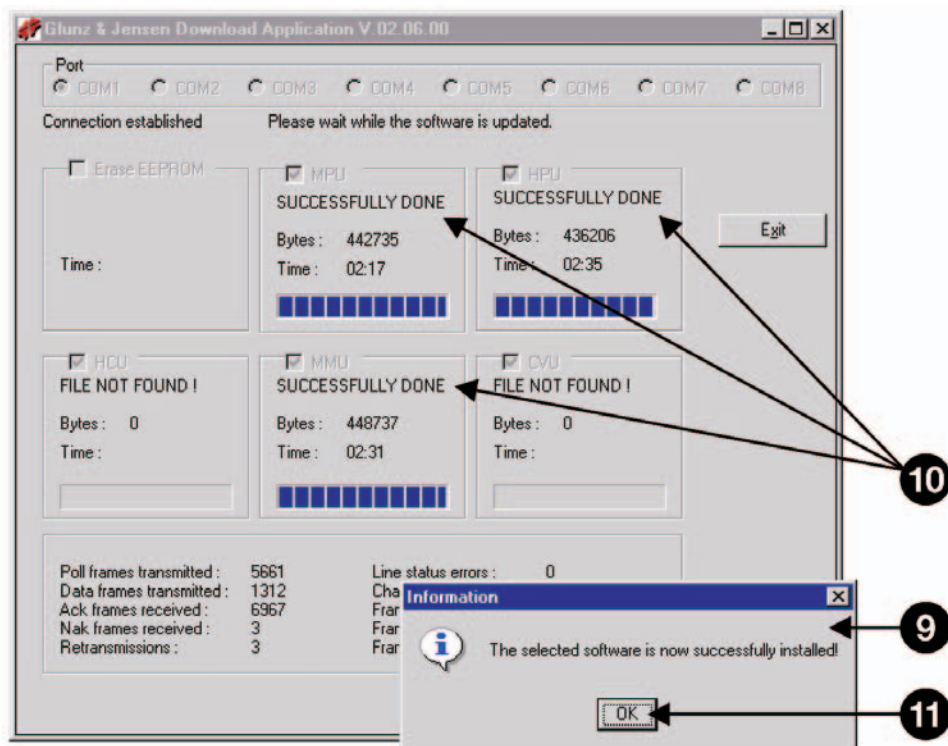


i NOTE! The accompanying PCLOAD.EXE file is a MS-DOS based application as described in the README.TXT file.



1. The application will say **Waiting for selection**.
2. Select the COM-port on your PC that is currently used for the processor connection.
3. Check that you have only selected the PCB's currently available on the processor/conveyor.

4. The **Erase EEPROM** should only be checked if you are performing a software upgrade, and not if you are downloading current software to a replaced HPU, HCU or MMU PCB.
5. Click **Start** to activate the download process.
6. The application will say **Waiting for connection**.
7. Turn the processor's main switch to ON.
8. The application will say **Connection established** and the downloading will start.



9. When the download has completed, the **Information** window is displayed.
 10. Ensure that the download status is **SUCCESSFULLY DONE** for all selected PCB's.
 11. Click **OK**.
- If the download process is interrupted, and the following error message displays



please follow the given instructions and then restart (optionally de-select the PCB's to which download have already been successfully completed).

- Disconnect Null-modem cable from "P4" if used only for download purposes. If there the RS-485 terminator must remain in place.

- Check all cables for proper connection (especially the one connected to the "J4,4" plug).

Trouble Shooting

SYMPTOM	SUGGESTIONS
<p>The Download application will not start downloading.</p>	<ul style="list-style-type: none"> • Check that the cable is connected correctly and that the correct COM-port has been specified. • Make sure that the processor is turned off before pressing "Start" and then turned on. • Try using a different COM-port. • Check for correct wiring of the Null-modem cable.
<p>The download application says that the COM port is unavailable.</p>	<ul style="list-style-type: none"> • Check whether another application is using the COM-port. Note that internal modems usually lock a COM-port. • Try using a different COM-port. • Check the Windows Device Manager for available COM-ports and their status.
<p>The download process keeps stopping during a specific PCB load.</p>	<ul style="list-style-type: none"> • Check whether a RS485 terminator has been mounted on the processor, if not then please mount one (see page 9 for details).
<p>HCU not found.</p>	<ul style="list-style-type: none"> • Check if processor has a HCU PCB installed. Make sure that the S1 switch is set according to the instruction delivered with the board. • Check that all serial bus-cables between the PCB's are properly connected. • Check whether a RS485 terminator has been mounted on the processor, if not then please mount one (see page 9 for details).

Appendix

USB Support

'USB to COM-port converter' spare part number 10060074.

The software cannot directly support USB, but it is possible to obtain an "USB to COM-port converter".

If you do not have a COM-port, then please obtain and install the converter.

Connecting the converter to the PC's USB-port should automatically start the converter software installation.

The converter will automatically choose a COM-port.

After installation of the converter, disconnect the USB-cable, remove adapter software CD, restart the PC, reconnect the USB-cable and check if it still works.

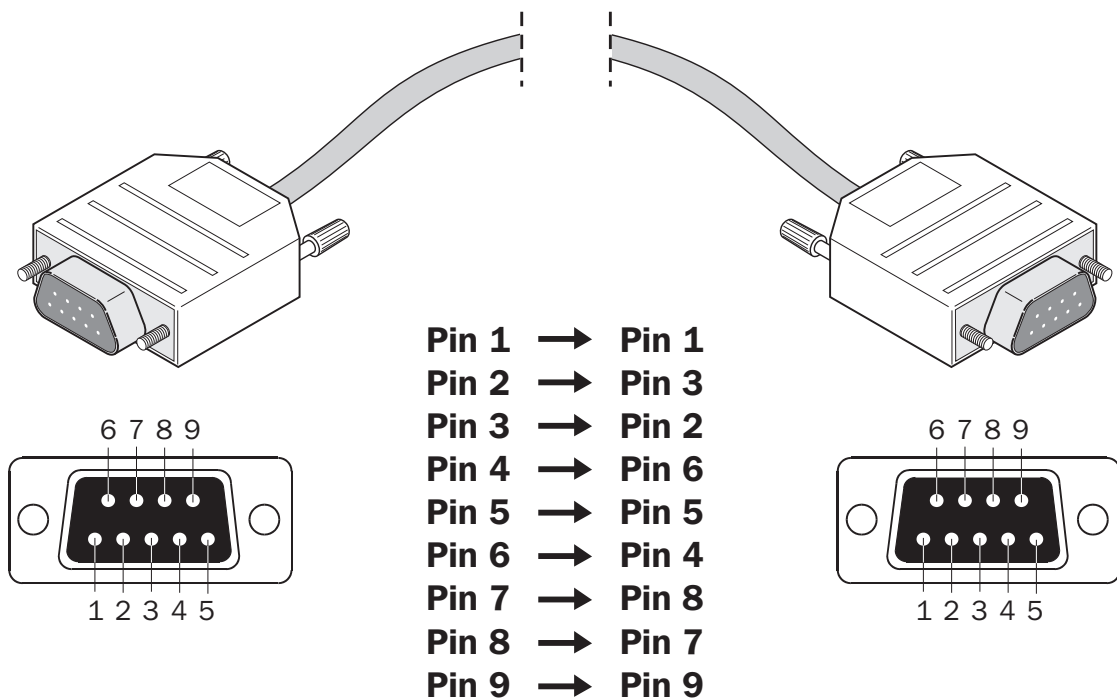
If the COM-port is not available check the USB-converter device properties in the Windows Device Manager.

The installation can be difficult due to Windows or converter software problems.

Null-Modem Cable

Null-modem cable, spare part number 10013917 (4 m).

A Null-Modem Cable is a standard cable used for various communication purposes. The cable has a 9-pin female connector in both ends and is wired as indicated in the illustration below.



RS485 Terminator

If downloading fails, it may be caused by a PCB incompatibility, that can appear during download. The problem can be solved by fitting an RS485 terminator to the one free connector on the communications bus.



If you do not have an RS485 terminator, you can order one from G&J (Part No. 85514) or you can construct one yourself by using a 9-pin D-SUB male plug and soldering a 47 kOHM resistor between pins 3 and 4.



The location of the free connector can be either on the HPU, MPU, HCU or CVU PCB. The list below shows the possible plugs to which the terminator should be connected:

PCB	PLUGS
HPU	P1,1 or P1,2
MPU	P1 or P2
HCU	P1,1 or P1,2
CVU	P100 or P101

The picture below shows an RS485 terminator mounted on the plug named "P2" on the MPU PCB.

