

# Application Note AN0202: bentrup TC500 controllers with WinControl 4.7 or higher

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## 1.) General Informations

Due to extended features of WinControl (version 4.7 and higher) any controller of the TC500 series connected to WinControl must be fitted with controller software version 1.10 or higher. WinControl 4.7 declines communication on older TC500 controllers.

## 2.) TC500 Software Version 1.10

TC500 series controllers version 1.10 or higher also allow to change the communication ID (default 0). This is required if multiple controllers to be operated on one RS485 bus. The communication ID (0 to 60) is entered as parameter no. 2 (former "printer rate").

TC500 series controllers communicating with WinControl must always be programmed with the unique serial number. This serial number (also printed on the back of the controller) is set at factory. You can double check the serial number saved in the controller by pressing the "select" key on controller power up. After showing the configuration data the controller now indicates the serial number.

## 3.) Updating Software of TC500 controllers

If a TC500 controller is upgraded to version 1.10 the serial number needs to be entered to enable WinControl communication. This is done by performing the following steps:

- turn off the controller; hold buttons "key" and "start stop" both pressed and turn on the controller. When the controller shows "888888" release buttons
- after a couple of seconds the controller shows "cIEAr?". Press "start stop"
- now the controller shows "t 0". Enter the thousands of the serial number (e.g. S/N 50987, enter "50" on the keypad) and press "start stop"
- following the controller shows "n 0". Enter the last 3 digits of the serial number ("987" in our example) and press "start stop" again
- if the controller shows "JP=cFG" the process is completed successfully. Turn off and back on the controller for normal operation. You can double check serial number as described before

Note: This process of setting the serial number can only be done once ! Make sure that you enter the serial number correctly. If you are not sure you can cancel the procedure at anytime by turning off / back on the controller and try again. Once the procedure is finished (display showing "JP=cFG") the serial number is permanently saved. If this number needs to be reprogrammed the controller must be returned to factory.