



**MODBUS COMMUNICATION FOR CAREL CONTROLLERS  
APPENDIX TO OPERATION AND MAINTENANCE MANUAL FOR CONTROL  
BOXES VS... CG uPC...**



THE FOLLOWING MANUAL ASSUMES GOOD KNOWLEDGE OF TECHNICAL DOCUMENTATION INCLUDED WITH THE AIR HANDLING UNIT (AHU). THIS MANUAL CONSIDERS ONLY THE CONTROL AND COMMUNICATION CIRCUITS. THE INSTALLATION OF THE FREQUENCY CONVERTER AND INSTALLATION OF MAINS AND MOTOR CABLES SHOULD BE DONE ACCORDING TO THE LG IG5A MANUAL.

**1. NEW COMMUNICATION SETTINGS INTRODUCED IN SEPTEMBER 2014**

For better stability of local Modbus communication, default baudrate was reduced from 19200bps to 9600bps.

**NOTE!** All devices connected to the Modbus line must be set to the same baudrate. Otherwise the communication will not work.

Device	Version and setting	Version and setting
HMI BASIC	Until August 2014 Default baudrate 19200	Since September 2014 Default baudrate 9600
CONTROLLER CAREL UPC	APP version until 1.12 Default baudrate 19200	APP version since 1.13 Default baudrate 9600
Variable Frequency Drive LS iC5 / iG5A	Default baudrate always 9600	

**2. HOW TO CHECK MY VERSION?**

**2.1. HMI BASIC OLD – 19200bps**



**2.2 HMI BASIC NEW – 9600bps**



**2.3 APPLICATION CAREL UPC**

SERVICE MENU, screen SYSTEM INFO, field Program info



All controllers up to APP uPC v.1.12 have default baudrate of 19200bps

All controllers since APP uPC v.1.13 have default baudrate of 9600bps and easy access to change that setting.

**3. HOW TO SET THE BAUDRATE EASILY?**

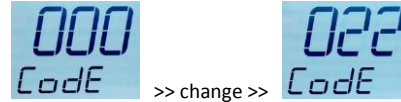
**3.1. HMI BASIC**

Power up the HMI BASIC

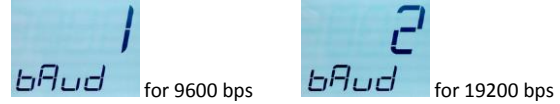
Hold FAN and POWER buttons for 3 seconds to enter the settings



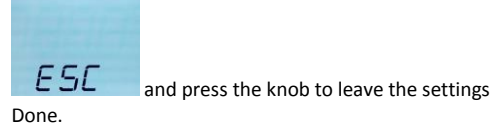
Enter the code



Find BAUD setting and set the right value



Find ESC



**3.2. APPLICATION CAREL UPC**

APP uPC v.1.13 and newer

Power up the controller and connect the HMI ADVANCED

Enter the password and go to SERVICE MENU

Set parameter Modbus bps



Restart the controller by switching the power off/on.

Done.

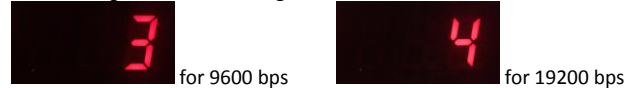
**3.3. VARIABLE FREQUENCY DRIVE**

Power up the VFD

Find I61 in the menu



Enter the right baudrate setting



Done.