Serial COM with Visualization

This example shows the use of three COM Ports. One port is for reading, another for writing and one can do both. The included visualization shows the reading and writing result together with the used parameters. The user can switch between the three different ports.

Product description

This example includes the communication with a serial COM port. In the visualization can be decided if one port should be used for both reading and writing or if two ports, one for reading and one for writing should be used.

More information

The correct port numbers needs to be adapted. The use of devices requires the adaption of the several parameters.

PLC_PRG: The main program is responsible for activating the chosen serial ports and set the specific parameter values for each port, like port number or baud rate. By changing the ports in the visualization, the unused ports will be closed.

SERIAL_LINE: Initially the given communication parameters are set. Afterwards the port is opened with this parameter list. Depending on the mode, the reading or writing process will be started. After reading, the buffer will be saved into a variable. Before the writing process can start, the string which should be written to the COM port is moved to a buffer variable.

Visualization: The SERIAL_LINE_VISU is the visualization module which shows the used parameters, occurred errors and the reading or writing result. The main visualization references this module for the different ports.

Screenshots

COM 6	9600 Baud	Paritymode EVEN	Stopbitmode ONESTOPBIT	Error NO_ERROR
Write	Hello World!			
Read				

Two serial lines (R / W)

General information

Manufacturer:

3S-Smart Software Solutions GmbH
Memminger Strasse 151
87439 Kempten
Germany

Support:

https://support.codesys.com

Item:
Serial COM with Visualization
Item number:
000025
Sales:

CODESYS Store
https://store.codesys.com

Included in delivery:
- CODESYS software and / or license key with billing information
- For training courses and events: Booking confirmation

System requirements and restrictions

Programming System	CODESYS Development System Version 3.5.3.0 or higher
Runtime System	CODESYS Control Version 3.5.3.0
Supported Platforms/ Devices	Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store.
Additional Requirements	-
Restrictions	-

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.