	miCon-L Programming for BARTH® lococube®	MANUAL	Page: 1/3 Document: 9022-0021-A Date: 19.02.2019 Revision: A

BARTH Elektronik GmbH ®

**miCon-L Programming
for BARTH® lococube®**

PROGRAMMING MANUAL

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1   Introduction

Without learning a difficult programming language the BARTH® lococubes® can be easily programmed using simple and vivid graphical function blocks.

This block design meets graphical standards of the latest graphical programming languages.

The miCon-L Software Suite features programming, simulation and test in one unique software design tool. The flexible CAN programming option offers a variety of possibilities in industrial, automotive and maritime applications.

1.1   Supported models

lococube® Model	Connection Cable Adaptor
STG-500 STG-501	Connection Cable VK-10 Art. No. 0091-0010
STG-600	Connection Cable VK-12 Art. No. 0091-0012
STG-550 STG-580 STG-650 STG-680 STG-700 STG-800 STG-810 STG-820 STG-850 STG-860	Connection Cable VK-16 Art. No. 0091-0016

2   Software download

BARTH® supplies a free software license download package for Microsoft® WINDOWS® which includes:

• Virtual COM port driver for USB connection
• miCon-L Software Suite
• Sample Programs for BARTH® lococube®

> **ℹ** **Please download the latest software package from:**
>
> **www.micon-l.de**
>
> **The micon-L Software Package includes several easy-to-use templates and programming samples.**

The packages includes free and ready-to-use sample programming templates. Each template refers to the specific lococube® hardware design and contains all required port connections. To create your own project simply modify or extend one of the following programming templates. Please login or register for free Downloadcenter access.

3   Installation

3.1   Driver for Connection Cable

Before you connect the lococube® to the PC using the VK-16 Connection Cable you have to install the VK-16 USB Driver first. Please follow the instructions of the SETUP routine.

3.2   Driver for VK-20 (Starter Kit)

If you want to connect the lococube® to the PC using the VK-20 Connection Cable you have to install the VK-20 USB Driver first.

> **ℹ** **https://www.barth-elektronik.com/en/download.html**
> **Please login and download the desired driver from the VK-16 / VK-20 product section.**

3.3   miCon-L Software installation

Now install the miConL software suite from the ‚miCon-L‘ folder. Select your language file and follow the setup instructions of miConL.
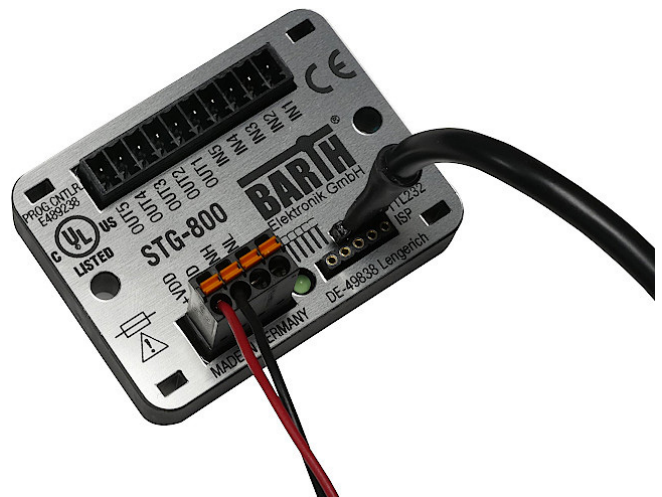
4   First steps

4.1   Hardware setup

> **ℹ** **For electrical connection of your lococube® please refer to the product-related manual.**

The picture below shows the typical hardware setup for miCon-L programming.

• lococube® mini-PLC (STG-800)
• Power Supply Connection (7 to 32VDC)
• Connection Cable (VK-16)

4.2   Software setup

Establish the PC connection using the Connection Cable VK-16/20 and run miCon-L. For choosing the correct virtual COM-Port please click the right button (configure serial interface) located on the main menu page and confirm the added virtual COM-Port used by the lococube®.
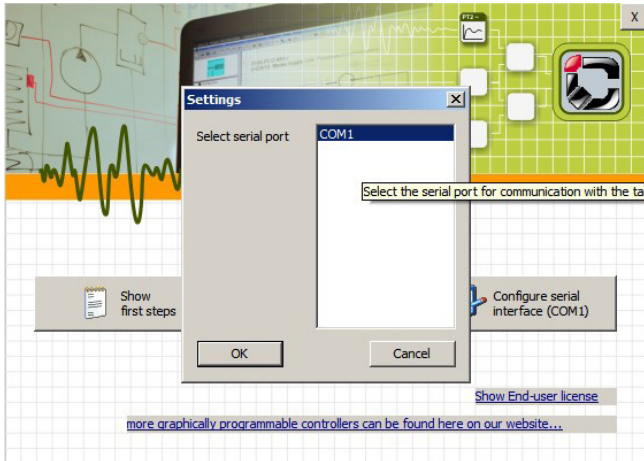

Now start miCon-L with creating a new project (Project-> New) or open a miCon-L sample application (Project->Open).
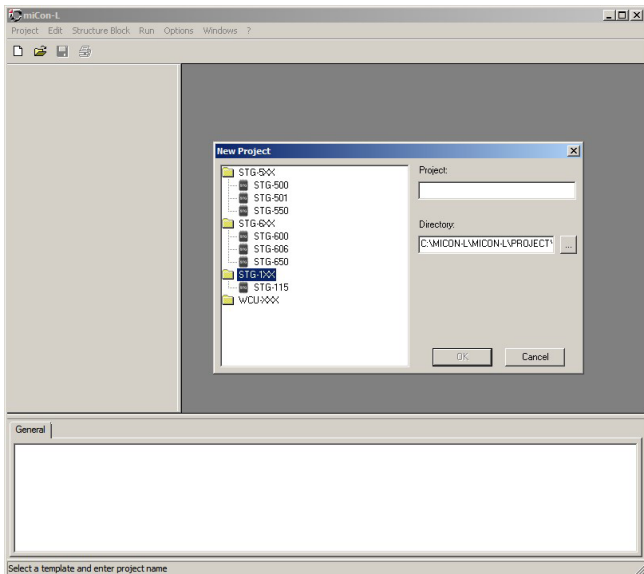

Creating a new project the desired lococube® model and the project name have to be defined. After opening or creating a project the workspace of miConL with it´s libraries (right) is shown.
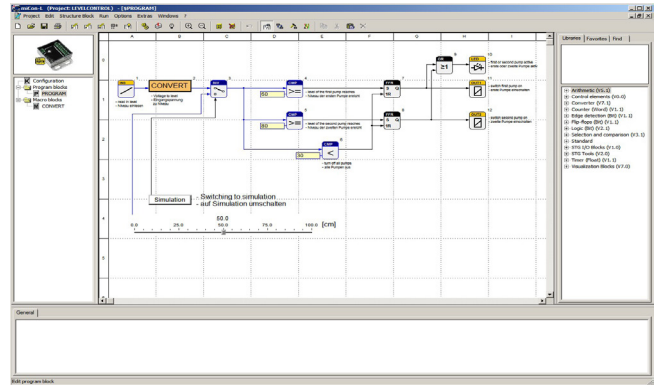
Additional help and a detailed user manual is provided within the miCon-L help and the miConL context menu (right mouse button).
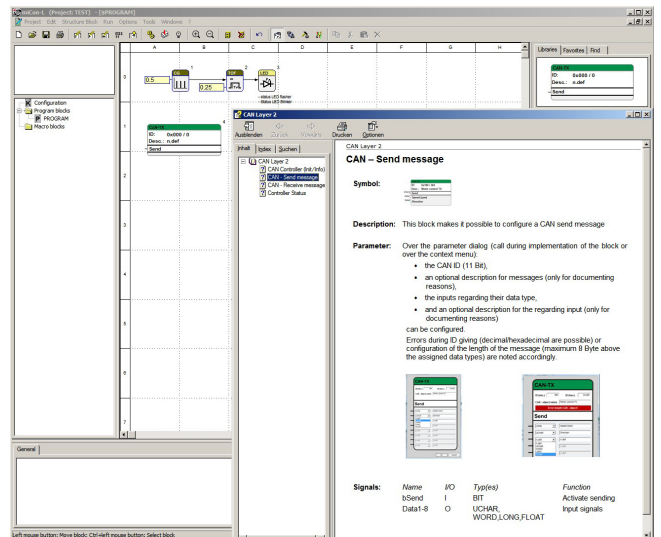
You can find sample programs in the ‚SAMPLE_PROGS' folder which is part of the miCon-L download package.
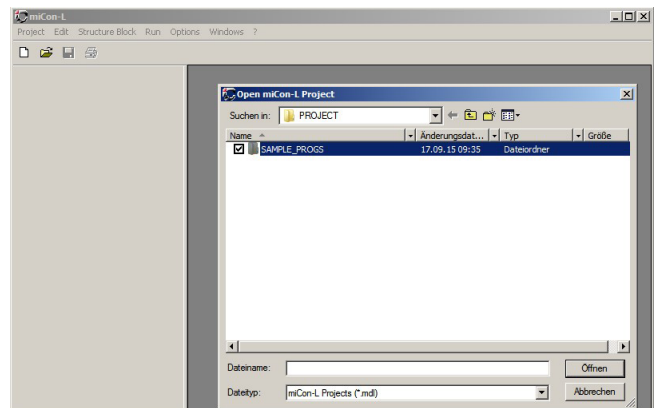
For detailed information and help please have a closer look at the documents related to the miCon-L Software Suite:

http://www.micon-l.de