

Control Unit Programming

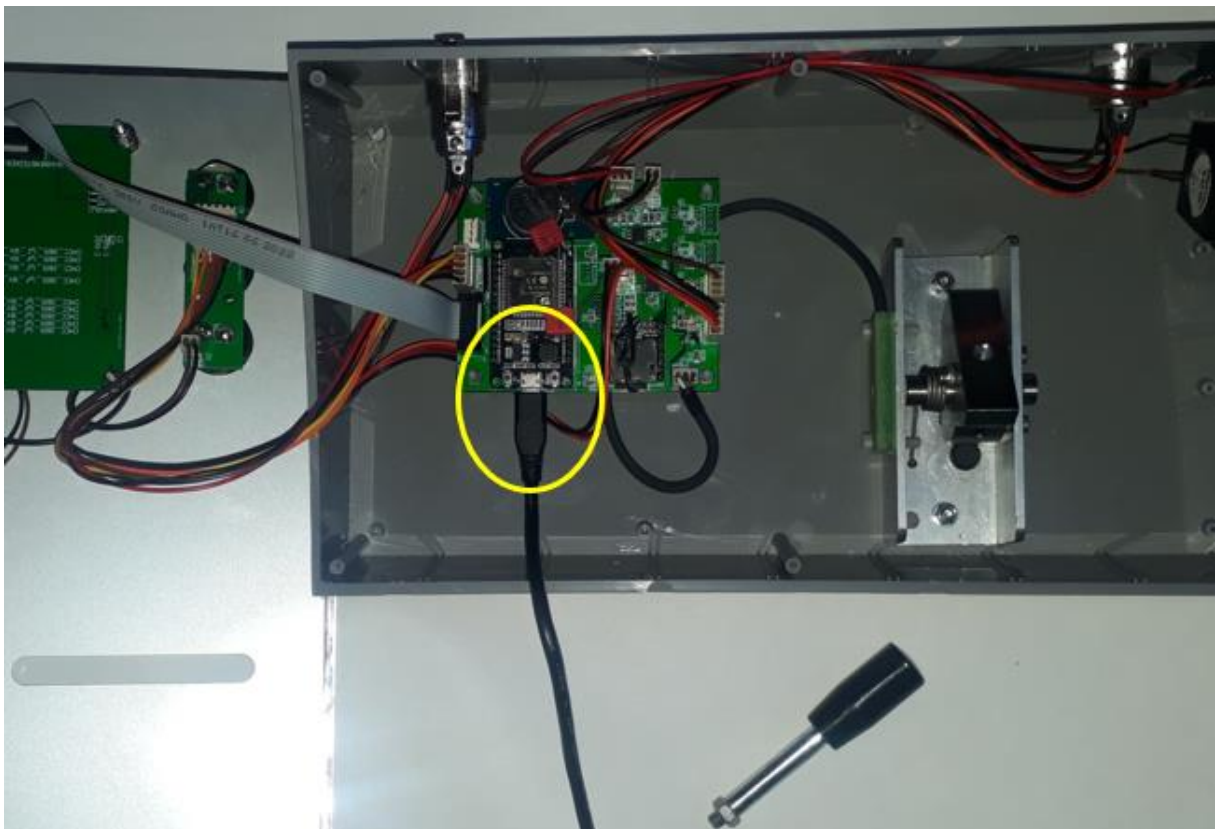
To program the ELOWIN Control Unit you will need:

1. A Windows-PC including .NET-Framework Version 4.5 or higher (included in Win10/11 anyway and mostly in Win8).
2. A micro-USB cable (smartphone cable)
3. Programming software included in a set of files sent by email or download

Just copy the files to a new directory or a USB stick. No installation needed.

To proceed,

- Open the unit (detach lever and 6 inbus screws)
- Plug cable



- Start programming software by double-click on „ElowinProgrammer.exe“
- Click on „start“ button. A black window should pop-up showing various programming informations.
- Programming is done if a message „hash of data verified“ appears after some seconds.

```
C:\Windows\System32\cmd.exe
Chip is ESP32-D0WDQ6 (revision 1)
Features: WiFi, BT, Dual Core, 240MHz, VRef calibration in efuse, Coding Scheme None
Crystal is 40MHz
MAC: 94:b5:55:25:fc:e0
Uploading stub...
Running stub...
Stub running...
Changing baud rate to 921600
Changed.
Configuring flash size...
Auto-detected Flash size: 4MB
Compressed 8192 bytes to 47...
Wrote 8192 bytes (47 compressed) at 0x0000e000 in 0.0 seconds (effective 4096.0 kbit/s)...
Hash of data verified.
Compressed 18656 bytes to 12053...
Wrote 18656 bytes (12053 compressed) at 0x00001000 in 0.2 seconds (effective 932.8 kbit/s)...
Hash of data verified.
Compressed 882000 bytes to 573679...
Wrote 882000 bytes (573679 compressed) at 0x00010000 in 9.2 seconds (effective 769.1 kbit/s)...
Hash of data verified.
Compressed 3072 bytes to 146...
Wrote 3072 bytes (146 compressed) at 0x00008000 in 0.0 seconds (effective 1117.1 kbit/s)...
Hash of data verified.

Leaving...
Hard resetting via RTS pin...

D:\EloProg\ElowinProgrammer>
```

Otherwise, note the messages and contact the service.

If a window „device not found“ pops-up when starting ElowinProgrammer.exe this is most likely due to a wrong or missing device driver (the mostly used Silicon Labs CP210x USB to UART driver is attached to the files).

