

FIRMWARE UPDATE Procedure COMBILOG 1022 Data logger

Requirements:

- SD Card (Max 2GB and not of SDHC type!)
- Firmware file "comblxxx.bin" (xxx is the version number i.e. 241)
- Stable power supply

Preparation:

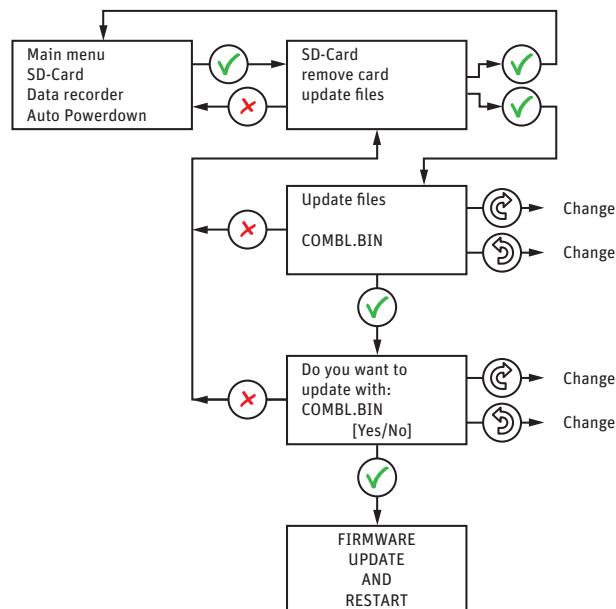
1. Although the existing configuration of the data logger should not change by updating the firmware, it is recommended to make a backup of the data logger configuration.
2. Download data from the data logger memory
3. On your PC or laptop, create a folder on the SD card called "updates"
4. Place the new firmware file "comblxxx.bin" in the Updates folder
5. Power off the data logger
6. Place the SD card in the expansion slot of the data logger

Installing the firmware update:

1. Power on the data logger
2. In the main menu on the data logger, select the option "Button Lock" and set it to "Off"

Note: for more information on using the display and rotary knob, please see section 6 of the manual

3. Select menu option: "SD Card"
4. Select option "Updates" and follow the steps below (Make sure the data logger does not lose power during the update process)



5. The firmware update will be installed and the data logger will be restarted.
6. Update process is complete, the file updates on the SD card can be deleted.

FIRMWARE REVISION HISTORY

V2.46 2014-06-25

* New features:

- E+E ASCII protocol for serial EE33-Sensor added.
- Expanded Modbus protocol for serial Modbus sensors added.

Previous versions:

V2.45 2014-04-25

* Changes:

- The two read pointers are now behaving like Combilog 1020.

* Eliminated bugs:

- Fixed bugs in averaging of arithmetic channels.
- After reading the log data the current read pointer was not saved correctly.

V2.44 2014-02-27

* Changes:

- Change default setting for Combilog 1022.
- If the modem MC88 is switched on during operation, the modem sends several zeros. The Combilog 1022 interprets the bytes as a break. We have added a timeout to fix the problem.

* Eliminated bugs:

- Stack size of modem task is too small. This leads to a data abort if an error string is printed to display. Stack size has been increased.

V2.43 2013-04-05

* Changes:

- For the lowest sample rate and average rate a value of '0.25 s' is displayed (instead of 0.5 s).

V2.42 2012-10-31

* Changes:

- HTTP Server: Standard GET response header added.

* Eliminated bugs:

- Fixed bug in serial communication (pointer error), which triggers the watchdog reset.
- Fixed bug in logger task (pointer error), which triggers the watchdog reset.

V2.41 2012-05-29

* Eliminated bugs:

- Eliminate bug in MODBUS protocol for reading data logs.

V2.40 2012-05-10

* New features:

- Expanded Modbus-Client for serial sensors. Please refer the documentation "Dokumentation_COMBILOG1022_Firmware-Erweiterung_Modbus-Sensor.pdf" Version 1.01 for detailed information.

V2.39 2012-05-02

* Eliminated bugs:

- In the evaluation of the serial channel, the first two digits are sometimes not displayed correctly.

V2.38 2012-03-29

* New features:

- Modbus-Client for serial sensors. Please refer the documentation "Dokumentation_COMBILOG1022_Firmware-Erweiterung_Modbus-Sensor.pdf" for detailed information.

V2.37 2012-02-15

* Changes:

- The ADC conversion timeout has been increased to ensure that the ADC conversion is not influenced by increased communication traffic.

V2.36 2011-08-31

* Changes:

- The handling to save the log data onto the SD card has been optimized.

* Eliminated bugs:

- The Combilog 1022 operates in a master-slave-configuration. If the slave uses a setpoint channel to obtain a setpoint value by the master, the setpoint value is not transferred correctly.

V2.35 2011-06-20

* Eliminated bugs:

- Current value of a counter input channel is reset after establishing a connection to Combilog 1022 by using PC software "Combilog.exe".

V2.34 2011-06-06

* Eliminated bugs:

- In web interface, separators for log files corrected.
- Header in CSV log file corrected.

V2.33 2011-03-29

* Changes:

- This revision adapts the firmware to a data modification of electrical components. This firmware update is only necessary if the LCD display does not work.

V2.32 2011-01-06

* Changes:

- The ADC conversion timeout is raised.
- For the present the model name is changed to "COM1020". Combilog 1022 returns "COM1020" as model name for compatibility to PC Software "Combilog.exe".

V2.31 2010-10-27

* Changes:

- The delay after switching over the ADC channel is reduced. This leads to a reduction of the ADC conversion time per analog channel.
- Model name changed. Combilog 1022 returns "COM1022" as model name. In older firmware versions Combilog 1022 returns "COM1020" for compatibility to PC Software "Combilog.exe". ATTENTION: This firmware version is only compatible to a modified PC Software "Combilog.exe". Older versions of "Combilog.exe" and "ComGraph32.exe" are not compatible to this firmware version.
- Some changes in firmware update functions. ATTENTION: A firmware update via PC Software is only possible, when a modified PC software "Combilog.exe" is used. Older versions of "Combilog.exe" and "ComGraph32.exe" are not compatible to this firmware version.

V2.30 2010-09-29

* New features:

- The function `spez1()` is extended by a new timeout value in [ms]. This timeout specifies the maximum delay of the connected serial sensor. If no message is sent within this timeout by the serial sensor, Combilog 1022 returns the default value.

* Eliminated bugs:

- Corrected bug in logger functions.

V2.29 2010-09-21

* New features:

- Additional serial sensors (Windsonic, Ultrasonic Windsensor) are supported.

V2.28 2010-07-21

* Changes:

- Value of setpoint channel can be set from minimum value up to and including maximum value.
- For modem communication, timeout between two received bytes is increased because of transmission delay of modem.

* Eliminated bugs:

- Corrected bug in ethernet communication.

V2.27 2010-07-08

* Eliminated bugs:

- Corrected ASCII and Profibus telegram "write data to a channel".

V2.26 2010-06-15

* Changes:

- Changed interpretation of encoder steps.

V2.25 2010-06-09

* Changes:

- In ASCII protocol the reply telegram of instruction "read number of events" is limited to a number of 99999 events because of compatibility to PC software ComGraph32.

V2.24 2010-04-30

* Eliminated bugs:

- Corrected display of memory info on LCD.

V2.23 2010-04-27

* Changes:

- Interrupt source type of UART0 and UART1 interrupt changed to high-level sensitive (fixed collision of TX/RX interrupts).
- If no password is configured, no password has to be transmitted to the datalogger before memory reading or erasing respectively before pointer setting.

V2.22 2010-03-19

* Eliminated bugs:

- Corrected display of network settings on LCD.