

Quick Start Guide for the Data Logger Option on CONNECT Devices

The data logger option in the CONNECT device allows you to log variables from a controller (S5 or S7) to a CSV file, using a trigger from the PLC. The file is written either to a USB flash drive plugged into the device or to a network drive. The creation of a new file can also be controlled via a trigger from the PLC.

Since the device always logs data records with a timestamp, you must ensure that it has the correct time. To do this, you can specify an NTP server in the **"Date and Time" group** on the **"Configuration" page**; the device will then synchronize its time with this server. You can also select the time zone to be used there.

If you wish to save the CSV file to a network drive, you must also connect the device to it once. You can configure the network drive parameters for this purpose on the **"Configuration" page** within the **"SMB Settings" group**. The settings include the IP address, port, username, password, and share name.

The data logger itself is configured via the **"Recordings" page**, which also serves as the device's webserver starting page.

At the top of this page, you can select which recording you wish to manage. This is necessary because the device can manage multiple recordings independently of one another. To create a new recording, click the + icon; you can delete an existing recording using the - icon.

You can then begin the parameterization process. For better clarity, the settings are divided into several groups:

- In the **"Control" group**, first define the parameters for the connection to your PLC. These include the IP address, channel (PG/OP/unspecified), rack and slot, and the polling time for the trigger bits.
- In the **"File" group**, on the other hand, you specify where the CSV file is to be saved. The parameters include the storage medium (USB flash drive or network drive), the path, and the file name. Furthermore, you can determine whether a CSV header should be written to the file and which timestamp format should be used.
- Next, in the **"Record Trigger" and "File Trigger" groups**, you specify which bits should control the logging of a new data record and the creation of a new file. The device can trigger the respective action either with TRUE or FALSE and optionally reset the bit as an acknowledgment to the PLC if successful.
- Finally, in the **"Variables" group**, you have the option to specify the individual variables to be logged. For each variable, you define a name, the data type (Bool, Byte, Word, Int, Real, etc.), the address (i.e., the operand in the PLC), and the output format (Bool, hexadecimal, decimal, floating-point, etc.).

Once you have finished configuring a recording, you must save the settings to apply the parameters.