

# Troubleshooting Guide- WAGO PLC Codes

So your SCADA system isn't working properly and you don't know why. But you notice a bunch of red LEDs on your PLC and think to yourself, "Gee, aren't those red LEDs usually green?" You're right they are usually green and are supposed to be green under normal circumstances. Being able to read these codes and provide them to our service techs can save time by letting our service techs know what to expect when they arrive.

## Check the LEDs on your PLC

Locate the main module on your PLC (here are two examples) and examine the LED indicators.

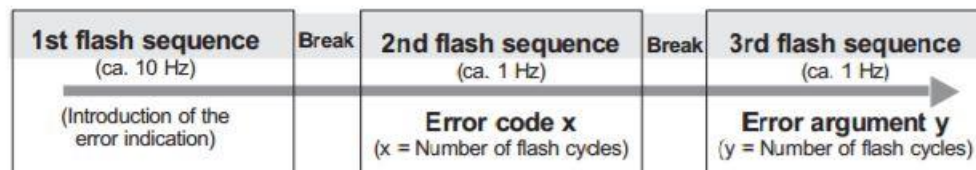


- If **all the LEDs are off** and the **power is on**- the PLC is dead and must be replaced.
- If **all LEDs are green** (steady or blinking) PLC is ok
- If **any LED is red**, (steady or blinking) you have either an I/O or PLC problem. A service call is required.
- If the **I/O LED is red and blinking**, try to determine the repeating pattern of flashes separated by pauses. It reveals an error code. If possible, write it down before you call. It will help our technician to isolate the problem and bring the necessary parts.

## Reading the codes

To read the codes consider the following procedure:

Device boot-up occurs after turning on the power supply. The I/O LED is orange. After a trouble-free start-up, the I/O LED is green. In the event of an error, the I/O LED continues to blink red. Blink codes indicate detailed error messages. An error is indicated cyclically by up to 3 blinking sequences.



### Example of a module error:

- The I/O LED starts the error display with the first blinking sequence (approx. 10 Hz).
- After the first break, the second blinking sequence starts (approx. 1 Hz): The I/O LED blinks four times. Error code 4 indicates "data error internal data bus".
- After the second break, the third blinking sequence starts (approx. 1 Hz): The I/O LED blinks twelve times. Error argument 12 means that the internal data bus is interrupted behind the twelfth I/O module.
- Record the error code and provide it over the phone so we can bring the necessary parts to get you back up and running in the shortest possible time.