

# Troubleshooting Guide- Allen-Bradley LED Status Indicators

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 status codes and provide them to our service techs can save time by letting our service techs know what to expect when they arrive.

## Identify your Allen-Bradley PLC Type

Locate and identify the main module on your PLC and proceed to the section that corresponds to your PLC main module.



MicroLogix 1100



MicroLogix 1400



CompactLogix 1769-L3xx

## CompactLogix 1769-L3xx

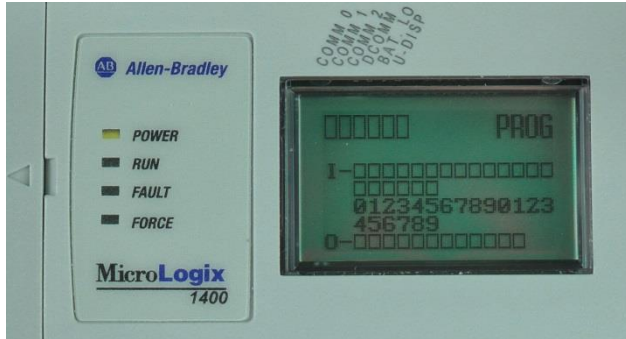


Under normal conditions the **Run, I/O, and OK** Indicators should all be **steady green**, and the **BAT** indicator should be **off**.

If any of these LEDs are not operating as described, a service call is required.

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## MicroLogix 1400 Controller LED Status Indicators



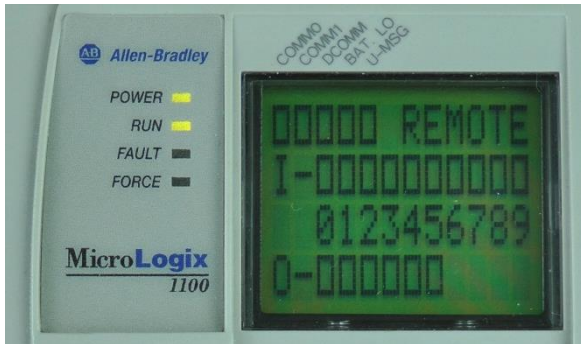
Under normal operation the **Power** and **Run** LEDs are **ON**.

If an error exists within the controller, the controller LEDs operate as described in the following table.

If the LEDS indicate:	The Following Error Exists	Probable Cause	Recommended Action
All LEDs off	No input power or power supply error	No line Power	Verify proper line voltage and connections to the controller.
		Power Supply Overloaded	This problem can occur intermittently if power supply is overloaded when output loading and temperature varies.
Power and FAULT LEDs on solid	Hardware faulted	Processor Hardware Error	Cycle power. Contact your local Allen-Bradley representative if the error persists.
		Loose Wiring	Verify connections to the controller.
Power LED on and FAULT LED flashing	Application fault	Hardware/Software Major Fault Detected	For error codes and Status File information, see <i>MicroLogix 1400 Programmable Controllers Instruction Set Reference Manual</i> , Publication <a href="#">1766-RM001</a> .
RUN FORCE FAULT LEDs all flashing	Operating system fault	Missing or Corrupt Operating System	See Recovering from Missing or Corrupt OS State on page D-206.

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## MicroLogix 1100 Controller LED Status Indicators



Under normal operating conditions, the POWER and RUN LEDs are ON.

If an error exists within the controller, the controller LEDs operate as described in the following table.

If the LEDs indicate:	The Following Error Exists	Probable Cause	Recommended Action
All LEDs off	No input power or power supply error	No line Power	Verify proper line voltage and connections to the controller.
		Power Supply Overloaded	This problem can occur intermittently if power supply is overloaded when output loading and temperature varies.
Power and FAULT LEDs on solid	Hardware faulted	Processor Hardware Error	Cycle power. Contact your local Allen-Bradley representative if the error persists.
		Loose Wiring	Verify connections to the controller.
Power LED on and FAULT LED flashing	Application fault	Hardware/Software Major Fault Detected	For error codes and Status File information, see <i>MicroLogix 1100 Programmable Controllers Instruction Set Reference Manual</i> , Publication 1763-RM001.
RUN FORCE FAULT LEDs all flashing	Operating system fault	Missing or Corrupt Operating System	See Missing/Corrupt OS LED Pattern on page D-201.