

Alarm.com Fire Communicator (ADC-FC100) - Module LED Guide

The Alarm.com Fire Communicator (FC100) is equipped with a set of RGB LEDs that can be used to indicate communication, errors, panel communication, network communication, and signal strength. Specific lighting sequences of these LEDs will be explained in this section and can be used to debug and troubleshoot the device in case of any issues.

Note: All four LEDs will light up briefly during the device start-up phase.

SYS LED

The SYS LED indicates the global system state.

LED pattern	Description
Off 	Power off Troubleshooting if this LED occurs when there should be power: Check that the power cables are connected firmly and that there is voltage on them.
Flashing red 	3 flashes - No connection to the server, trying to connect Troubleshooting if this LED continues: 1. Check the configuration. 2. Restart the device. 3. Check signal strength. 4. Check Ethernet cable and antennas.
Solid green 	Connected to server, both communication paths are working
Solid blue 	Connected to server, but one of the communication paths is down (Cellular or Ethernet) Troubleshooting if this LED continues: Check Ethernet cable and antennas or check signal strength.
Flashing green and blue 	This only occurs on devices with the remote access restrictions: remote programming, configuration, and firmware upgrades are currently allowed by the universal fire communicator end-user (using SW3 switch)

CELL / ETH LED

The CELL / ETH LED indicates the state of communication paths between the transmitter and server.

LED pattern	Description
Off 	Communication hardware is not ready, initializing; or this path has been disabled
Flashing red 	• 2 flashes - SIM error ◦ Verify the SIM card is installed correctly and does not have visibly damaged pins, try a different SIM card, restart the device • 3 flashes - trying to connect to server ◦ Verify the device configuration • 5 flashes - modem error ◦ Contact Alarm.com CORE Technical Support
Solid green 	Server connection working - no errors in communication path
Blinking/Flashing green 	• LED turns off for one second during transmission to server • 3 flashes - trying to connect server SIM switching (dual SIM configuration)
Blinking blue 	Sending data to the server
Blinking green and blue 	Number of flashes corresponds to the cellular network signal quality (1-8)

DTMF LED

The DTMF LED indicates the state of communication with the fire alarm control panel.

LED pattern	Description
Off 	Control panel is not sending data at the moment
Blinking green 	Control panel is sending data to T1-R1 connector
Blinking blue 	Control panel is sending data to T2-R2 connector

SIM1 / SIM2 LED

The SIM1 / SIM2 LED indicates the SIM slot selection and state (located next to SIM slots).

LED pattern	Description
Off 	Inactive SIM slot, during SIM switch or modem start-up
Solid yellow 	Active SIM slot

Technical support

For further troubleshooting, contact Alarm.com CORE Technical Support.