
How does relay reporting work with the Alarm.com Fire Communicator (ADC-FC100)?

Relay reporting on the ADC-FC100 is an optional method for reporting alarm and trouble events and should be used only if POTS/phone line reporting is unavailable or not physically present. Relay reporting should not be used in conjunction with phone line reporting.

When events are reported via relays, the FC100 uses generic Contact ID (CID) codes, which limit signaling to generic alarms, generic supervisories, and generic troubles.

Wiring when using relay reporting

In general, for FACP's using relay reporting, you'll want to:

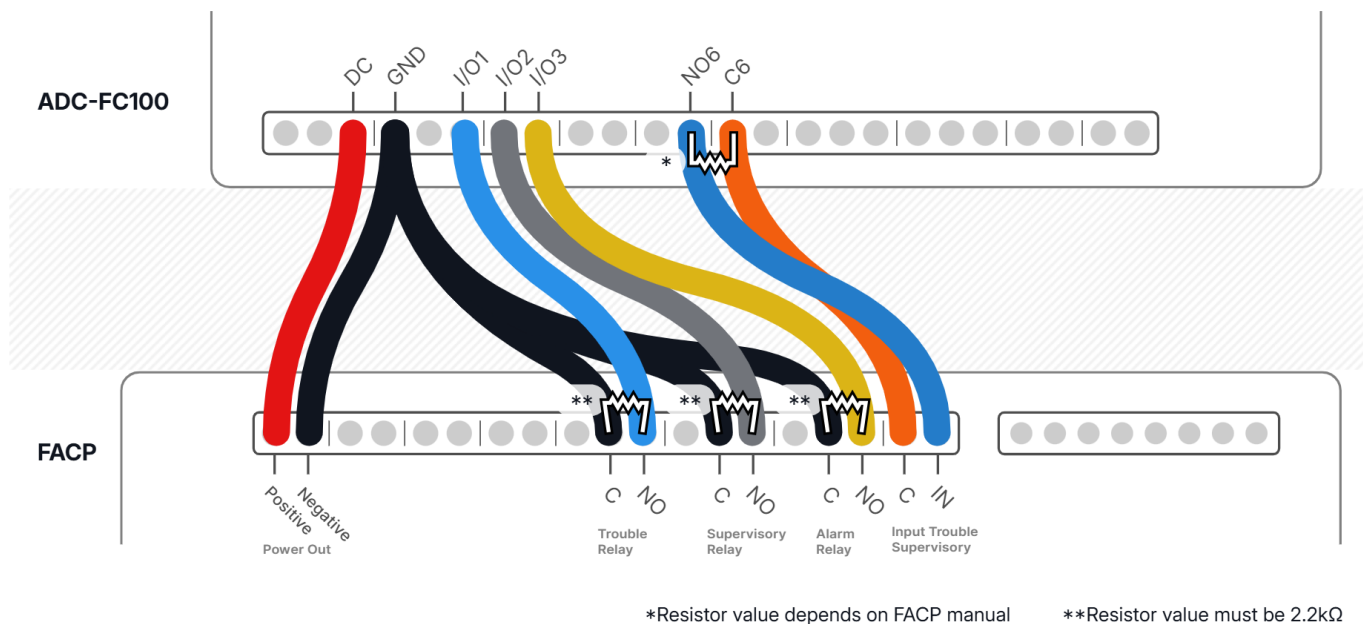
- Ensure the FACP relay outputs are properly configured for the desired events. Contact the FACP manufacturer if you are unsure.
- Verify that the relay outputs have a 2.2 k Ω EOL resistor wired in parallel.
- Verify that all wiring connections are secure and within the specified wire gauge (22–16 AWG).

Caution: The FACP must be powered off before wiring the FC100. Wiring the FC100 while the FACP is powered on may cause damage to the communicator.

The following diagram displays connecting the communicator with a FACP using relays (FACP without a dialer). Use this configuration if POTS lines are not available.

Important: 2.2k ω EOL resistors must be installed in parallel when using relay reporting. Failure to do so will result in only generic tamper reports, rather than alarm, trouble, or supervisory signals.

The FC100 must be installed in a metal enclosure. For more information, see [Alarm.com Fire Communicator \(FC100\) - Installation Guide](#).



Note: You can use a multiple-conductor ferrule (MCF) or make a short pigtail with a wire connector to combine the ground and common wires, so fewer wires need to be inserted into the GND terminal.

ADC-FC100	FACP (Reporting events over relay)
DC	Positive Terminal
GND	- Negative Terminal - C Terminals: - Trouble Relay - Supervisory Relay - Alarm Relay
Note: You may use a Multiple Conductor Ferrule (MCF) to make the connections to GND.	
IO/1	Trouble Relay - NO Terminal with a 2.2kΩ resistor
IO/2	Supervisory Relay - NO Terminal with a 2.2kΩ resistor
IO/3	Alarm Relay - NO Terminal with a 2.2kΩ resistor
NO6	*Input Trouble Supervisory IN
C6	*Input Trouble Supervisory C

Panels without AC fail delay should be wired only through a relay.

Note: Some panels may not have designated aux power terminals. In that case, some panels can configure NAC terminals as auxiliary power sources. Please refer to the specific model FACP installation guide for more information.

Important:

1. *Some control panels may not have an input on the unit itself and require the purchase of an additional module. See the FACP-specific installation guide for more information.
2. For UL864:
 - The AC Fail event generated by the FACP can be delayed by the FC100 communicator using any of the inputs from I/O1 to I/O4. If the FACP does not have a TELCO dialer (POTS) and communication is managed using only three relays, the AC FAIL event delay must be on the FACP side. In this case, the alarm panel must have a built-in delay that ensures the information reaches the monitoring station no sooner than one hour after the power failure and no later than three hours after.
 - When wired to FACP's without a TELCO dialer, the alarm transmissions will transmit general alarms as one zone.

How do the alarm, trouble, or supervisory signals appear in the event history?

In the event history on the Partner Portal or MobileTech app, you will typically see an *EBS Command* followed by a generic *Transparent Mode Message*. Use the [event code](#) inside that message to determine what was sent to the monitoring station.

Example:

- Message 1100 indicates a fire alarm.
- Message 3100 indicates a fire alarm restore.

Command	EBS Command (Automated) [(Acknowledged at 3/10/2026 10:55:40 am) ACK Token: 58]	3/10/2026 10:55:33 am
SIA DC-09	Transparent Mode Message(3100 1, partition 0) 1 secs - CID - Successful View Detailed Information	3/10/2026 10:55:30 am
Command	EBS Command (Automated) [(Acknowledged at 3/10/2026 10:55:40 am) ACK Token: 64]	3/10/2026 10:55:30 am
Command	EBS Command (Automated) [(Acknowledged at 3/10/2026 10:55:39 am) ACK Token: 19]	3/10/2026 10:55:30 am
SIA DC-09	Transparent Mode Message(1100 1, partition 0) 2 secs - CID - Successful View Detailed Information	3/10/2026 10:54:45 am
Command	EBS Command (Automated) [(Acknowledged at 3/10/2026 10:55:39 am) ACK Token: 72]	3/10/2026 10:54:45 am