SYSTEM OPERATION

A normally functioning DeltaNet Fire & Security System is indicated by the green RUN and green POWER LEDs on the powered Control Board. If a Communication Board is installed, the Communication Board red TRANSMIT and RECEIVE LEDs blink as data is communicated.

Power Supply Supervision

The power supply circuits for the DeltaNet FS90 Fire & Security system are monitored for Integrity. Trouble conditions in these circuits are indicated by Low Battery (yellow) and Power (green) LEDs on the CA control board. In the normal, supervisory, condition, the yellow Low Battery LED is off and the green Power LED is on. A trouble condition in the power supply circuits is indicated when either the green Power LED is blinking or the yellow Low Battery LED is on. If this occurs, contact a service technician to determine the nature of the trouble condition by removing the batteries from the system and testing their condition. With the batteries out of the system, proper functioning of the power supply, battery changer and battery supervision circuits should be verified. Any faulty component must be replaced.

Modes of Operation

The DeltaNet Fire & Security System can operate independently (Stand-Alone Mode) or as a Data Gathering Panel (DGP) in a higher-order system (DGP Mode). DGP Mode is in effect when a Communication Board is plugged into the Motherboard and active communication takes place. If communication fails, the system operates in Stand-Alone Mode.

LJ Communication/Display Board Switch

When the LJ Board MULTIPLE ALARM-TROUBLE LED is on, multiple abnormal conditions (alarm, trouble, prealarm) exist on AE Board loops. The LJ Board displays one address at a time, beginning automatically with the address of the highest-priority device. An address remains displayed until a new, higher priority device goes into an abnormal condition or until the PREVIOUS/NEXT switch is pushed. Use the PREVIOUS/NEXT switch to display other addresses as follows.

FRONT PANEL SWITCHES/LEDS

Control Board Switches

ACKNOWLEDGE
— Pushing the ACKNOWLEDGE switch silences the local audible and changes blinking LEDs to ON. The ACKNOWLEDGE switch does not affect indicating zone outputs and does not silence alarm signals. Pushing the ACKNOWLEDGE switch acknowledges all alarms present in the panel.
— If the panel is a DGP, the ACKNOWLEDGE switch does not function when the DGP is communicating with the higher-order system. The ACKNOWLEDGE switch becomes functional when communication is broken.

SILENCE

Pushing the SILENCE switch does the following:
— Silences devices connected to indicating zones.
— Silences devices connected to Control Modules with indicating characteristic set.
— Silences the local audible.
— Turns on the Control Board SILENCE LED.
— Changes blinking LEDs to on.

RESET

Pushing the RESET switch removes power to all initiating zones for fifteen seconds and sends out a fifteen-second reset signal that returns all input-zone status indicators to normal. After reset, zones that return to alarm or trouble are annunciated as new alarms or troubles.

PANEL TEST

Performing a Panel Test reveals whether all boards are controlled by the panel microprocessor. Pushing the PANEL TEST switch turns off all LEDs, except Communication Board LEDs and turns on the local audible. A Panel Test does not interrupt alarms or troubles reporting in the system.

Pushing the PANEL TEST switch turns on all LJ Communication/Display Board LEDs and causes the LJ Board to display the address 8888.

Pushing the MANUAL EVACUATION switch does the following:
— Turns on all indicating zones.
— Turns on all AE Board Control Modules that have the indicating characteristic set during system setup.
— Causes a common alarm indication.
— Causes the local audible to pulse. Manual evacuation is terminated by pushing either the SILENCE or the RESET switch.

Honeywell DeltaNet FS90 Fire & Security System
Control Unit
LOCAL SERVICE REPRESENTATIVE

Name:

Address:

Phone:

Refer to Installation Instructions: Honeywell form no. 95-7421-3, issued 10-2007
### Table 1. CA Board Switch and LED Functions.

<table>
<thead>
<tr>
<th>Switch/LED</th>
<th>Normal Operation</th>
<th>Setup Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro-Processor Reset Switch</td>
<td>Resets microprocessor.</td>
<td>Exits Setup Mode. Any changes made during Setup Mode will be lost if this switch is activated.</td>
</tr>
<tr>
<td>Acknowledge /Silence Switch</td>
<td>Acknowledges troubles and alarms or silences outputs as follows: Acknowledge position (UP): The local audible silences and blinking LEDs change to steady on. The Acknowledge/Silence switch does not affect indicating zone outputs or silence alarm signals. NOTE: Zones set up as central are acknowledged when the new status reports to the central processor. FS90 acknowledgement of these zones is not required unless communication with the central fails and stand-alone mode is in effect. Silence position (DOWN): The indicating zone devices silence, the FS90 local audible silences, the CA Board Silence LED turns on and blinking LEDs change to steady on. NOTE: Operators may also silence zones set up as central from the central processor.</td>
<td>Advances pointer to next function.</td>
</tr>
<tr>
<td>Reset Switch</td>
<td>Resets FS90. The system removes power to all initiating zones for 15 seconds, activates the CA Board reset out signal for 15 seconds and returns all input zone status indicators and their associated outputs to normal. After the 15-second reset time any zone(s) remaining in alarm or trouble announces as a new alarm or trouble.</td>
<td>Selects or deselects characteristics.</td>
</tr>
<tr>
<td>Panel Test Switch</td>
<td>Initiates a test of all LEDs except the communication board transmit and receive LEDs. The test turns on the LEDs and sounds the local audible. The test indicates that all function boards are operational and controlled by the CA Board microprocessor. The panel test does not affect alarm or trouble reporting in the system.</td>
<td>Enter characteristics into date file and moves pointer.</td>
</tr>
<tr>
<td>Manual Evacuation Switch</td>
<td>Initiates a manual evacuation signal. All indicating zones turn on and a common alarm indication and pulsing local audible occur (if audible is selected and the system is in the stand-alone mode). Toggle the Acknowledge/Silence switch to silence the output and then toggle the Reset switch to return the system to normal.</td>
<td>Not used.</td>
</tr>
<tr>
<td>Setup Switch</td>
<td>Enters Setup Mode.</td>
<td>Exits Setup Mode.</td>
</tr>
<tr>
<td>Alarm LED</td>
<td>Indicates a common alarm in the system via blinking LED.</td>
<td>Indicates the system is ready to enter group address menu.</td>
</tr>
<tr>
<td>Trouble LED</td>
<td>Indicates a common trouble via a blinking yellow LED.</td>
<td>Indicates the system is ready to enter code menu.</td>
</tr>
<tr>
<td>Silence LED</td>
<td>Indicates the Silence switch has been activated to silence the outputs.</td>
<td>Indicates the system is ready to enter the special options menu.</td>
</tr>
<tr>
<td>Low Battery LED</td>
<td>Indicates a low battery condition if system power supply is off. If a Battery Supervision Module is installed, this LED indicates low battery or absence of batteries at all times.</td>
<td>Indicates various time menus when used with ground fault and disconnect LEDs.</td>
</tr>
<tr>
<td>Ground Fault LED</td>
<td>Indicates a ground fault in the system.</td>
<td>Indicates various time menus when used with low battery and disconnect LEDs.</td>
</tr>
<tr>
<td>Isolate LED</td>
<td>Indicates one of the Disconnect switches on a module is activated or a point has been isolated or locked out.</td>
<td>Indicates various time menus when used with low battery and ground fault.</td>
</tr>
<tr>
<td>Power LED</td>
<td>Indicates power is on.</td>
<td>Indicates system is ready to enter output menu.</td>
</tr>
<tr>
<td>Run LED</td>
<td>Indicates system is ready to operate.</td>
<td>Indicates system is ready to enter input menu.</td>
</tr>
<tr>
<td>Setup LED</td>
<td>Off</td>
<td>On to show system is in Setup Mode.</td>
</tr>
</tbody>
</table>

### MAINTENANCE PROCEDURES

The system must be maintained in accordance with the system documentation and procedures and practices contained in applicable NFPA and UL standards, including NFPA 70, 72, 90A, 92A and 92B. DeltaNet FS90 Systems Maintenance and Repair Manual for further details, including testing, fuse replacement and replacement parts. For service, contact your local Honeywell Automation & Control Solutions office as listed in the phone book, or contact a regional office as shown at the end of this document.

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74-5069  J.I.  11-07

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This product may contain small amounts of chemicals and substances that may be banned from disposal in landfills. At the end of the useful life of this product, it is the owners’ responsibility to safely decommission the product and arrange for disposal in accordance with all applicable environmental laws and regulations, including Directive 2002/96/EC of the European parliament and the Council of 27 January 2003 on Waste Electrical and Electronic Equipment (WEEE).