## ULC Installation Information

### All Installations:
- Transformer - Minimum 16 V AC 37 VA, Class 2, CSA/cUL Listed
- Install with ULC Listed devices where applicable.

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Residential Burglary</th>
<th>Residential Fire</th>
<th>Central Station Burglary</th>
<th>Central Station Fire</th>
<th>Local Burglary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum battery standby</td>
<td>4 Hour</td>
<td>24 Hour</td>
<td>24 Hour</td>
<td>24 Hour</td>
<td>24 Hour</td>
</tr>
<tr>
<td>12 V 4Ah</td>
<td>2 x 12 V 7Ah</td>
<td>2 x 12 V 7Ah</td>
<td>2 x 12 V 7Ah</td>
<td>2 x 12 V 7 Ah</td>
<td></td>
</tr>
<tr>
<td>System entry delay</td>
<td>≤ 45 s</td>
<td>not applicable</td>
<td>≤ 60 s</td>
<td>not applicable</td>
<td>≤ 60 s</td>
</tr>
<tr>
<td>System exit delay</td>
<td>≤ 60 s</td>
<td>not applicable</td>
<td>≤ 120 s</td>
<td>not applicable</td>
<td>≤ 120 s</td>
</tr>
<tr>
<td>Minimum bell cutoff</td>
<td>4 minutes</td>
<td>4 minutes</td>
<td>Optional</td>
<td>Optional</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Installation standard</td>
<td>CAN/ULC - S310</td>
<td>CAN/ULC - S540</td>
<td>CAN/ULC - S302</td>
<td>ULC/ORD - C693</td>
<td>CAN/ULC - S302</td>
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<tr>
<td>Equipment standard</td>
<td>ULC/ORD - C1023</td>
<td>CAN/ULC - S545</td>
<td>CAN/ULC - S304</td>
<td>CAN/ULC - S527 NFPA 72</td>
<td>CAN/ULC - S303</td>
</tr>
<tr>
<td>Digital communicator</td>
<td>Enable for monitoring</td>
<td>Enable for monitoring</td>
<td>* See Note 1</td>
<td>* See Note 2</td>
<td>Optional</td>
</tr>
<tr>
<td>Label required</td>
<td>Household Burglary Alarm System Control Unit</td>
<td>Household Fire Warning Alarm System Control Unit</td>
<td>Subscribers’ Unit Burglary</td>
<td>Subscribers’ Fire Alarm</td>
<td>Subscribers’ Unit Burglary</td>
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<tr>
<td>Power LED assembly</td>
<td>Optional</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
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<tr>
<td>Model ULC-LA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>AC power hardwire connection</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Required</td>
<td>Check Local Authority</td>
</tr>
<tr>
<td>System tamper protection</td>
<td>Optional</td>
<td>Optional</td>
<td>Required</td>
<td>Required</td>
<td>* See Note 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See National Building Code</td>
<td>Section 3.2.4</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>* See Note 9</td>
</tr>
<tr>
<td>Cabinet</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
<td>Attack Resistant</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>* See Note 10</td>
</tr>
<tr>
<td>Special Notes</td>
<td>____________</td>
<td>* See Note 5</td>
<td>* See Note 6</td>
<td>*See Notes 3, 4 &amp; 8</td>
<td>*See Notes 6 &amp; 7</td>
</tr>
</tbody>
</table>

### Notes:
1. Line security requirements:
   - **Level 0** Digital communicator enabled and connected to a single telephone line reports to ULC Listed Sur-Gard receiver model SG-MLR2 or ULC Listed ADT receiver model UCS-2995001/2995029
   - **Level 1** Digital communicator enabled and connected to a single telephone line, and ULC Listed LINKS 1000 Cellular Transmitter
   - **Level 3** ULC Listed DVACS* module PC5400, P5400, PC4400, P4400 enabled reports to ULC Listed Sur-Gard receiver model SG-MLR2-DV or ULC Listed ADT receiver model UCS-2995001/2995022

2. a) One wired ULC listed fire module; a compatible PC5720, P5720, PC5700, P5700, PC4701, P4701, PC4700, or P4700 and 2 independent telephone lines or b) A telephone line and ULC Listed Links1000 Cellular Alarm Transmitter or c) One wired ULC Listed DVACS modules: PC5400, P5400, or PC4400.

3. Each ULC Listed, “SUBSCRIBERS CONTROL UNIT - FIRE/BURGLARY”, i.e. PC5010, MUST be connected to ULC Listed, “FIRE ALARM CONTROL UNIT”, if they are to monitor a complete fire alarm system. System alarms and troubles to be transmitted.

4. The zones comprising the fire alarm system must be programmed to transmit troubles on the communication lines within 4 minutes; i.e. opens, ground faults or failure to communicate. This applies to all communication configurations: dual telephone line, DVACS* or cellular.

5. Program zone for ULC Listed 4-wire smoke detectors or compatible ULC Listed 2-wire smoke detectors. (see diagrams on back)

6. Double end of line zone configuration must be used (see diagram on back).

7. Only one contact per zone.

8. This may be connected to ULC Listed Sprinkler Riser devices (see diagram on back).

9. All system enclosures must be 24 hour tamper protected against opening or removal (DSC Tamper Kit T-1 or equivalent). This includes control unit and accessory cabinets, initiating devices and bells/strobes. Keypads must be tampered unless they are within the protected area.

10. The PC4020/PC4010 and P664/P16128 control units must be in the PC4050CAR cabinet. Other control units must use the CMC-1 cabinet.

### Programming
The notes in the programming sections describing the system configurations for ULC Listed installations must be implemented.

*DVACS is a registered trademark of Electro Arts Canada.*
Protection of the Control Unit - Burglary

The local control and the local power supply must be protected by one of the following ways:

- The control unit and power supply must be within the area of greatest protection which is on a tamper protected circuit.
- Each partition shall arm the area protecting the control unit and the audible alarm power supply. This may require duplicate protection armed by each partition. Access to this protected area, without causing an alarm, will require that all partitions be disarmed.

In all cases described above, the protected area for the control unit must be programmed as not by-passable and installed in accordance with CAN/ULC-S302 or CAN/ULC-S310.

User Information

The installer should advise the users and note in the user instruction manual:
- Service organization name and telephone number
- The programmed exit time
- The programmed entry time

4-Wire Smoke Detectors

Smoke Detector must be listing type (such as DSC MN240 Series). To reset smoke detectors, enter [9][7][2].

Refer to installation guidelines in Installation Manual and detector manufacturer’s literature when locating smoke detectors.

2-Wire Smoke Detectors

Water Flow Connection

- 5 maximum in parallel, in one zone
- must be in close proximity to each other in one zone

Double End of Line Zone Configuration

Door/Window Contact (1)
ULC Commercial Zone
For One Form C Contact

Double End of Line Zone Configuration

Door/Window Contact (2)
ULC Commercial Zone
For One Form A Contact

Double End of Line Zone Configuration

Double Door/Window
ULC Commercial Zone
Uses Two Form C Contacts

Double End of Line Zone Configuration

Intrusion Detector
ULC Commercial Zone
For One Form C Contact