Intellitec’s Vehicle Programmable Logic Controller is designed to provide a flexible switching unit that is programmable by a Windows™-based GUI. VPLC is designed to perform a variety of functions including, but not limited to:

- Lighting on small emergency vehicles
- Airport vehicles
- Buses
- Other specialty vehicles

The Vehicle Programmable Logic Controller provides ten, solid state, high-side outputs, each capable of carrying 10 amps. Each output can be programmed through a Windows™-based program, using Boolean logic to perform various functions, such as flashers, interior lights, communications equipment, hydraulic valves, interlocks, and timed outputs.

The VPLC uses an Intellitec multiplexed communications line with sixteen channels, each capable of being either an input or an output. This allows remote switch panels with as many as 16 switches to communicate with the controller over two non-shielded wires using logic statements such as: Output = Ignition and Master Switch and Volts >12.

VPLC provides the following features:

- 3 High-side direct inputs
  - Temperature
  - Voltage sensor
  - Event Counter
- 1 Audible Alarm Output
- 16 channels; selectable as Input or Output
- 10 Solid-state, FET outputs
- 10 Virtual channels
- 5 Timers; one-shot or duty timer selectable

The Audible Alarm is built into the potted assembly. It can also be programmed with Boolean logic.
SPECIFICATIONS

General Connections
Nominal Vehicle Voltage 12V 24V
Module Current
J2-A PMC Signal 18 AWG Min
J2-B PMC Ground 14 AWG Min
J3-B Power Ground

NOTE: The FET outputs of channels 1-10 provide a protected source of voltage to the Load from the Battery. The maximum current for the entire module is 50 Amps. Due to the need to dissipate heat, the current being controlled by each output must be considered.

CHANNEL DESIGNATIONS

<table>
<thead>
<tr>
<th>Outputs</th>
<th>Connection</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output 1</td>
<td>J1-A</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 2</td>
<td>J1-B</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 3</td>
<td>J1-C</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 4</td>
<td>J1-D</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 5</td>
<td>J1-E</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 6</td>
<td>J1-F</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 7</td>
<td>J1-G</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 8</td>
<td>J1-H</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 9</td>
<td>J1-J</td>
<td>10 Amps</td>
</tr>
<tr>
<td>Output 10</td>
<td>J1-K</td>
<td>10 Amps</td>
</tr>
</tbody>
</table>

Communications
J2-A Ground J3-A High-side Input 2
J2-B Signal J3-B Ground
J3-C Transmit
J3-D Receive
J3-E Temp Sensor
J3-F Temp Sensor
J3-G High-side Input 1
J3-H High-side Input 3

SWITCH ADAPTER OPTIONS

The initial offering includes 2 accessory options:
00-00904-000 6 button Pushbutton Panel
00-00905-100 10 button Pushbutton Panel