

# Vehicle Programmable Logic Controller (VPLC)

Date datasheet created:  
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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

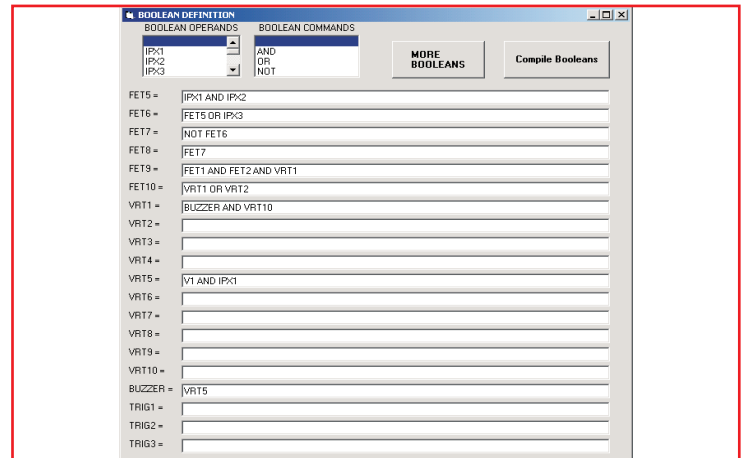
The Vehicle Programmable Logic Controller provides ten, solid state, high-side outputs, each capable of carrying 10 amps. Each output can be programmed through a Windows™ -based program, using Boolean logic to perform various functions, Such as flashers, interior lights, communications equipment, hydraulic 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 AudibleAlarm Output
- 16 channels; selectable as Input or Output
- 10 Solid-state, FEToutputs
- 10 Virtual channels
- 5 Timers; one-shot or duty timer selectable

TheAudibleAlarm is built into the potted assembly. It can also be programmed with Boolean logic.



**Example**  
VPLC Windows™ - based GUI for programming boolean definitions

For further information on this product, please contact Intellitec.

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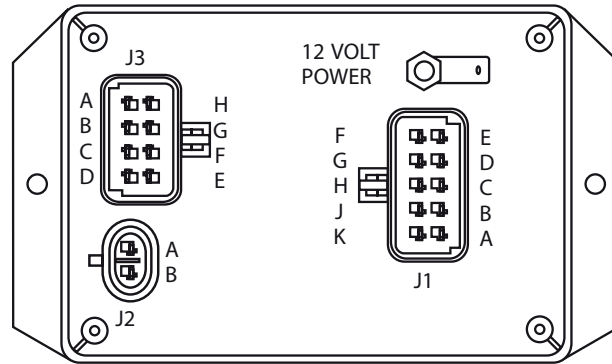
General Connections		00-00808-000	00-00808-240
Nominal Vehicle Voltage		12V	24V
Module Current		15 Amps Max	15 Amps Max
J2-A	PMC Signal	18 AWG Min	18 AWG Min
J2-B	PMC Ground	14 AWG Min	14 AWG Min
J3-B	Power Ground		

**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

Outputs	Connection	Rating
Output 1	J1-A	10 Amps
Output 2	J1-B	10 Amps
Output 3	J1-C	10 Amps
Output 4	J1-D	10 Amps
Output 5	J1-E	10 Amps
Output 6	J1-F	10 Amps
Output 7	J1-G	10 Amps
Output 8	J1-H	10 Amps
Output 9	J1-J	10 Amps
Output 10	J1-K	10 Amps

Communications	Inputs
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



VPLC Connections diagram

## SWITCH ADAPTER OPTIONS

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



6 button Pushbutton Panel



10 button Pushbutton Panel