

**IPLC M210 Diagnostic Lights**

Each stall or port has two associated lights, one green the other red. These lights reflect the status of the IPLC and the condition of any attached resistive loads, such as block heaters, battery blankets, interior heaters, etc. The various light combinations and status is shown in the table below.

Stall Lights		Load Attached	Load Status Description
Green	Red		
Flashing Slowly	OFF	NO	Power is available. Ready to accept user load.
Flashing Slowly	OFF	YES	User equipment has an open circuit condition.
ON	OFF	YES	All is OK! Load is accepted.
Flashing Quickly	OFF	YES	Load is too small. Loads MUST BE at least 1/4 Amp.
OFF	ON	YES	Load is OVER maximum load limit. Unplug - reduce load - retry.
OFF	Flashing Quickly	YES	Load is greater than 15 Amps! Possible short circuit!
OFF	OFF	N/A	Power is NOT available. Call service personnel.

**IPLC M210 Diagnostic Lights & Load Status Table**

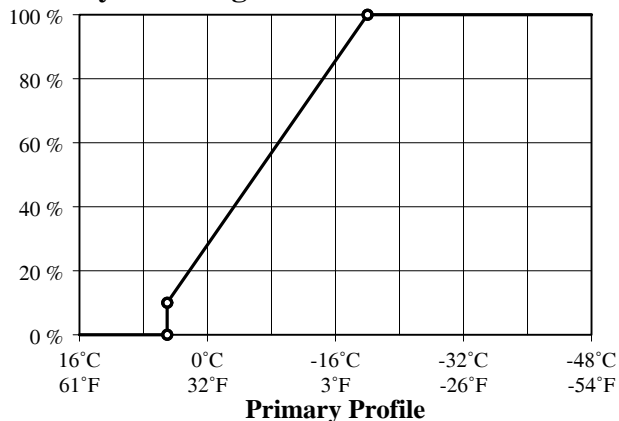
**Package Contents & Unit Operation**

This package contains one IPLC M210 dual circuit controller with 20 amp rated pre-wired industrial outlet, gasket, mounting hardware and instructions/commissioning procedures. The IPLC comes pre-programmed with a Diesel schedule and a factory set load limit of 15 amps. When a load is attached there is a 2 1/4 minute test time, power is provided at any temperature allowing for testing of units. This is followed by a two hour initial power delay, no power is provided at any temperature. Following this delay the unit will start to cycle, checking the outside temperature every 4 1/2 minutes. It will provide power for a percentage of time based on the outside temperature as outlined in the program profile below. A cover is required and is not included.

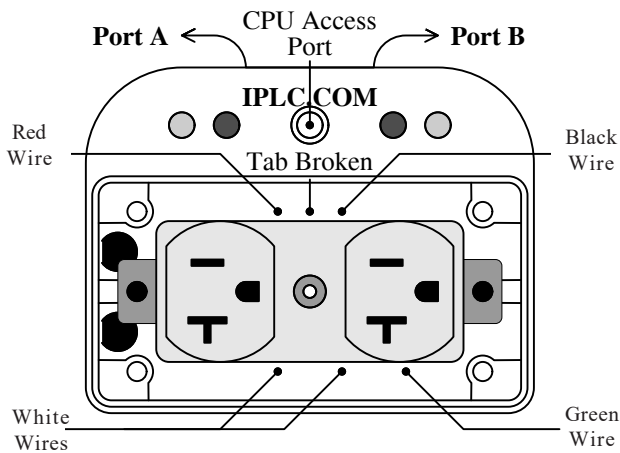
**Trucking / Diesel: Factory Pre-Programmed Schedule**

Primary Profile	
Temperature	Percent ON
> 5.0°C [41°F]	0.00 %
5.0°C [41°F]	10.16 %
<= -20.0°C [-4°F]	100.00 %

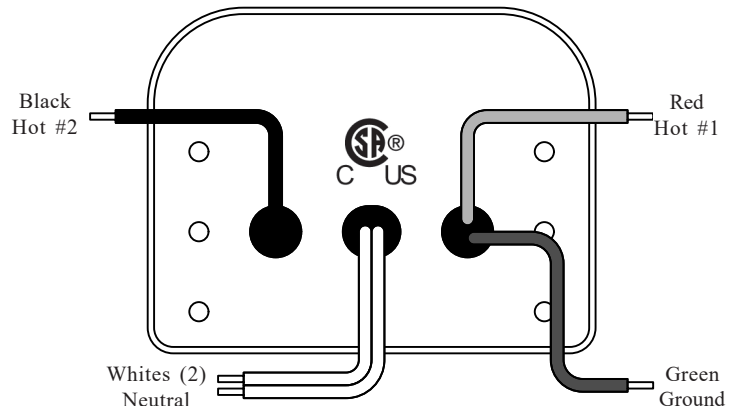
**LOAD LIMIT: 1800 W (15 Amps)**  
**INITIAL POWER DELAY: 2.05 hours**



# Intelligent Parking Lot Controller (IPLC) M210-20 Wiring and Commissioning Procedure



**IPLC M210-20 Wiring Diagram (Frontview)**



**IPLC M210-20 Wiring Diagram (Backview)**

## Installation, Electrical and Wiring Specifications

The IPLC M210 is a flush mount style and there is no access into the back of the unit. The CPU access port on the front of the unit (see FRONTVIEW above), enables the Data-Mate (available separately) to reprogram and collect performance data for the IPLC. A cover is required and NOT included, one must be added in accordance with national and local electrical codes.

### Electrical Specifications

- Dual 125 VAC, AC supply
- 60 Hz circuit operation
- 240 VAC single phase split circuit with neutral
- 20 Amps rms
- Resistive loads only
- 208 VAC Line-to-Line 3 phase with neutral

Wiring details refer to IPLC M210 wiring diagram BACKVIEW (above) and table (below).

Configuration	Wiring	Notes
Dual Stall/Dual Circuit	Red - Hot #1 Black - Hot #2	
Dual Stall/Single Circuit	Red - Hot #1 Black - Hot #1	Connect Red and Black with available Hot. Set load limit to 900 Watts using IPLC Data-Mate.
Single Stall Option 1	Red - Hot #1 Black - Hot #1	Connect Red and Black with available Hot. Configure for Single Stall operation using the Data-Mate. Port B will always have a red light (recommended method).
Single Stall Option 2	Red - Hot #1 Black - Neutral	Data-Mate is NOT available, connect Red with available Hot. Connect Black with Neutral. Port B will always have no lights.
<b>Common Wiring:</b> White or Black/White Striped - Neutral    Green - Ground		



## Commissioning Procedure

**Use CAUTION When Installing This Product**

To prevent severe shock or electrocution always turn the power OFF at the service panel before working with wiring. Installation and service to be performed by a qualified installer. If available wiring is corroded, it is recommended to trim wire and then connect. Commissioning procedure is as follows. Connect the IPLC as described above, be sure the marrettes make tight wire connections. Reset the breakers, the units should flash "Green" after ~4 seconds, assert a test load which does not violate the preprogrammed load limits. The units "Green" light will be lit solid and power will be delivered to this load if all is well. A solid "Red" light will indicate the applied load is too large. Remember to assert the load for each outlet to verify proper operation. If the "Green" lights do not flash after ~10 seconds (and you are sure power is applied to both circuits) this indicates a poor wiring connection. Turn off power, reaffirm the wiring connections and repeat.

**IPLC Warranty:** The IPLC control has a 3 year warranty on materials and workmanship, this covers normal use of the product only and does not cover abuse, accidental damage or vandalism. All software updates are free for the life of the product. Software updates require an IPLC Data-Mate. Contact IPLC/Vantera Inc. directly for warranty claims or details on our recycle credit program.

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