

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 loads, such as block heaters, battery blankets, interior heaters, etc. The various light combinations and status is shown in the table below.

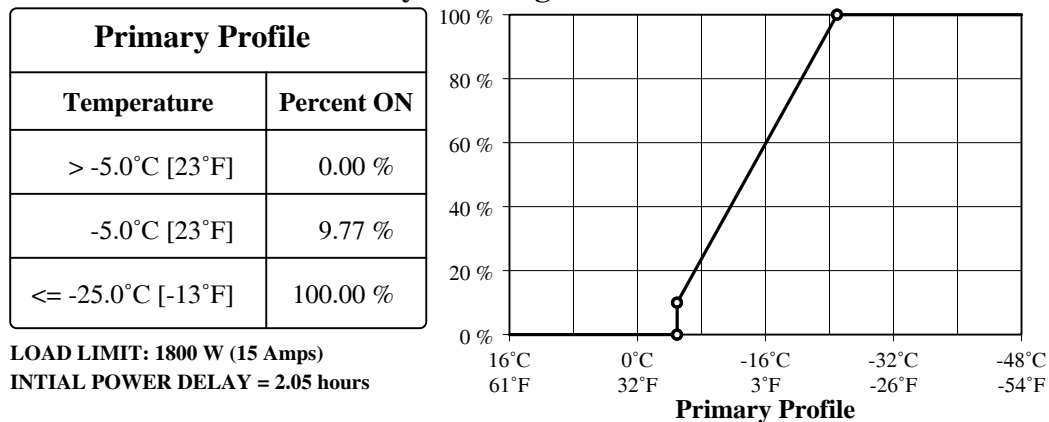
Stall Lights		Load Attached	Load Status Discription
Green	Red		
Flashing Slowly	OFF	NO	Power is Available. Ready to accept User load.
Flashing Slowly	OFF	YES	User Equipment has an open circuit condition.
ON	OFF	YES	All is OK! Load is Accepted.
Flashing Quickly	OFF	YES	Load is too small. Loads MUST BE Atleast 1/4 Amp.
OFF	ON	YES	Load is OVER Maximum Load Limit. Unplug - reduce load - retry.
OFF	Flashing Slowly	YES	Load has a Ground Fault! Possible Shock Hazard!
OFF	Flashing Quickly	YES	Load is Greater Than 20 Amps! Possible Short Circuit!
OFF	OFF	N/A	Power is NOT Available. Call Service Personel.

IPLC M210 Diagnostic Lights & Load Status Table

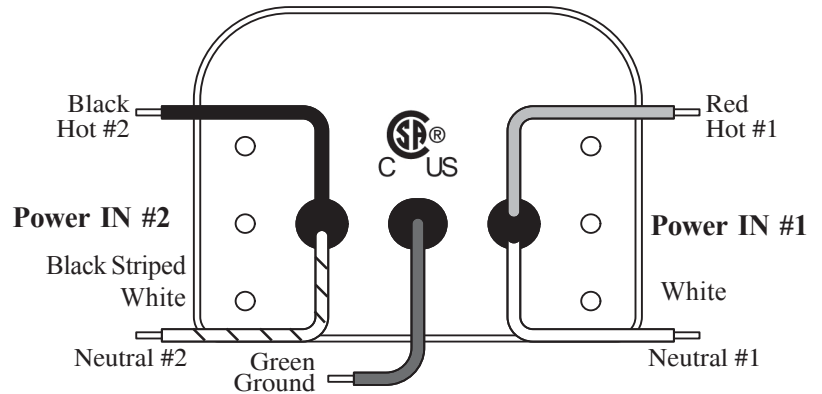
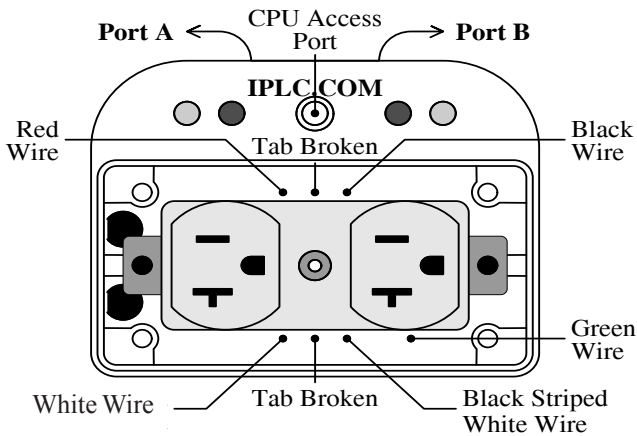
Package Contents:

One IPLC M210 dual circuit controller, pre-wired industrial outlet, seals, mounting hardware/instructions, and commissioning procedures. The IPLC comes pre-programmed with a standard schedule averaging 65% in savings (see program profile below) with a factory set load limit of 15 Amps and a two hour initial power delay. Note: A cover is required and not included.

Factory Pre-Programmed Schedule



Intelligent Parking Lot Controller (IPLC) M210TN Wiring and Commissioning Procedure



IPLC M210TN Wiring Diagram (Front View)

IPLC M210TN Wiring Diagram (Back View)

Electrical & Wiring Specifications: Dual 125 VAC, AC supply, 20 Amps rms, 60 Hz circuit operation, resistive loads only. 240 VAC single phase split circuit with neutral, 208 VAC Line-to-Line 3 phase with neutral. *please refer to IPLC M210 wiring diagram BACK VIEW (shown above) and table (shown below).

Configuration	Wiring	Notes
Dual Stall/ Dual Circuit	Red to Hot #1 Black to Hot #2	
Dual Stall/ Single Circuit	Red & Black Together to Hot #1	Connect Red and Black together with available Hot. Set load limit to 900 Watts using IPLC Data-Mate.
Single Stall ONLY Port A will be available for use.	Option #1 Red & Black Together to Hot #1	Connect Red and Black together with available Hot. Configure for Single Stall operation using IPLC Data-Mate (recommended method). Port B will always have a red light.
	Option #2 Red to Hot #1 Black & Neutrals to Neutral	IPLC Data-Mate NOT available: Connect Red with available Hot. Connect Black with Neutral. Port B will have no lights, recommend capping off.
If the Neutral is split the device will have one white Neutral and one Black/white striped Neutral. Ensure each Neutral is connected with it's associated Hot's Neutral terminal (Neutral #1 & #2 shown above). If only one Neutral is provided wire Neutral #1 & #2 with this available Neutral.		
COMMON WIRING: Whites - Neutral Green - Ground		

IMPORTANT NOTE: THE LINE HOTS MUST BE CONNECTED TO THE DEVICE HOTS (HOT #1 & #2 shown above). Take special care to ensure the wire connectors make tight wire connections! If available wiring is corroded, it is recommended to trim wire and then connect. The IPLC M210 is a flush mount style which does not require any access to the back of the unit. This M210-TN unit is the one recommended for installations requiring GFCI protection however it is NOT included in the M210 unit. **You CAN NOT replace the receptacle in this unit with a GFCI receptacle.** There are two options for adding GFCI protection, 1) two single pole GFCI breakers at the panel; 2) two GFCI blank face receptacles between the breakers and the M210 unit. For GFCI protection devices, the IPLC "Power In" **MUST BE** wired to the GFCI device's **LOAD terminals**. Visit www.iplc.com for complete details.

Commissioning Procedure: IMPORTANT! Connect the IPLC as described above, reset breakers, the units should flash "Green" after ~4 seconds. Using an **OUTLET CIRCUIT TESTER** test each half of the outlet to ENSURE THAT THE POWER IS WIRED PROPERLY to the device. **EXTREME SHOCK HAZARD CAN RESULT IF** Neutral and Hot wires are reversed. The Outlet Circuit Tester should verify that the hot, neutral and ground are properly connected. To complete the commissioning procedure, assert a test load which does not violate the preprogrammed load limits (a standard interior heating load with selectable wattage is suitable). The outlets "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 and only a short connection period is required 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.