



MODEL: SSI-600-PDC Controller Operation Manual



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SSI-600-PDC Controller Operation Manual

For packaging purposes the line light and controller are shipped separately. The user must make the connection currently according to the following procedures in order for the light and controller to function properly.



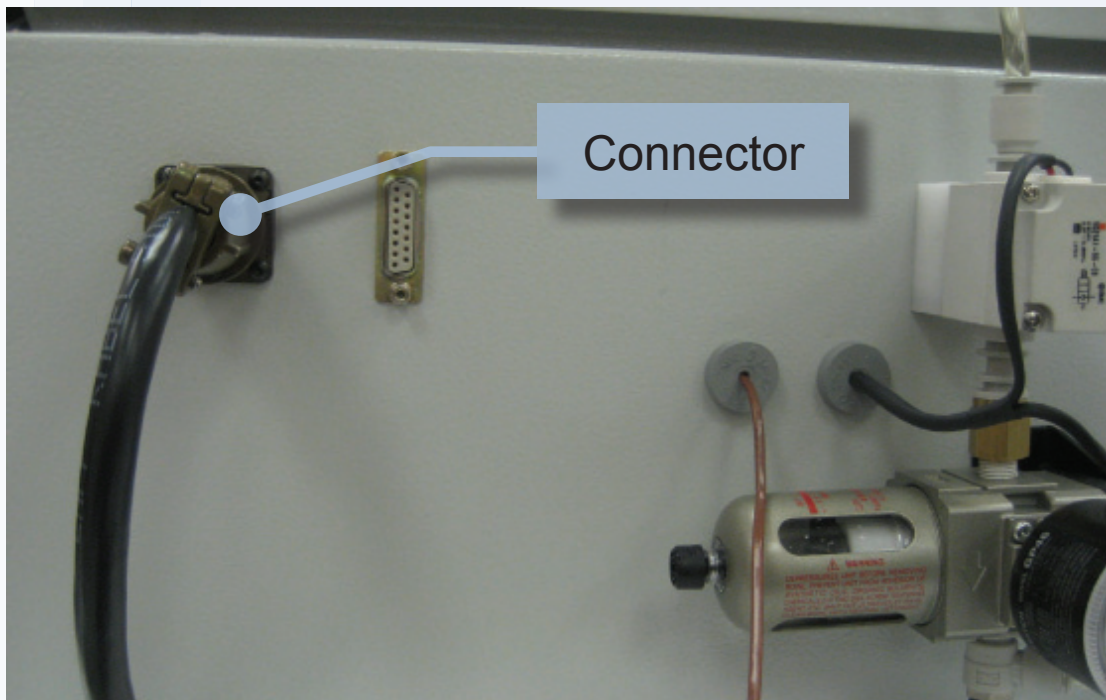
Your line light comes with two wires which you will need to connect. The larger black 14 gauge wire is for power and control. The second smaller brown jacketed wire is the lights thermocouple sensor.

Note: Be careful not to over-handle or bend the thermocouple wire excessively as this can lead to breakage or lost connection with the controller.

As a default condition of the controller programming and in order to protect the light from thermal damage; a disconnected or a broken lead wire on the thermocouple wire extension will purposely keep your light from operating

Set up procedure:

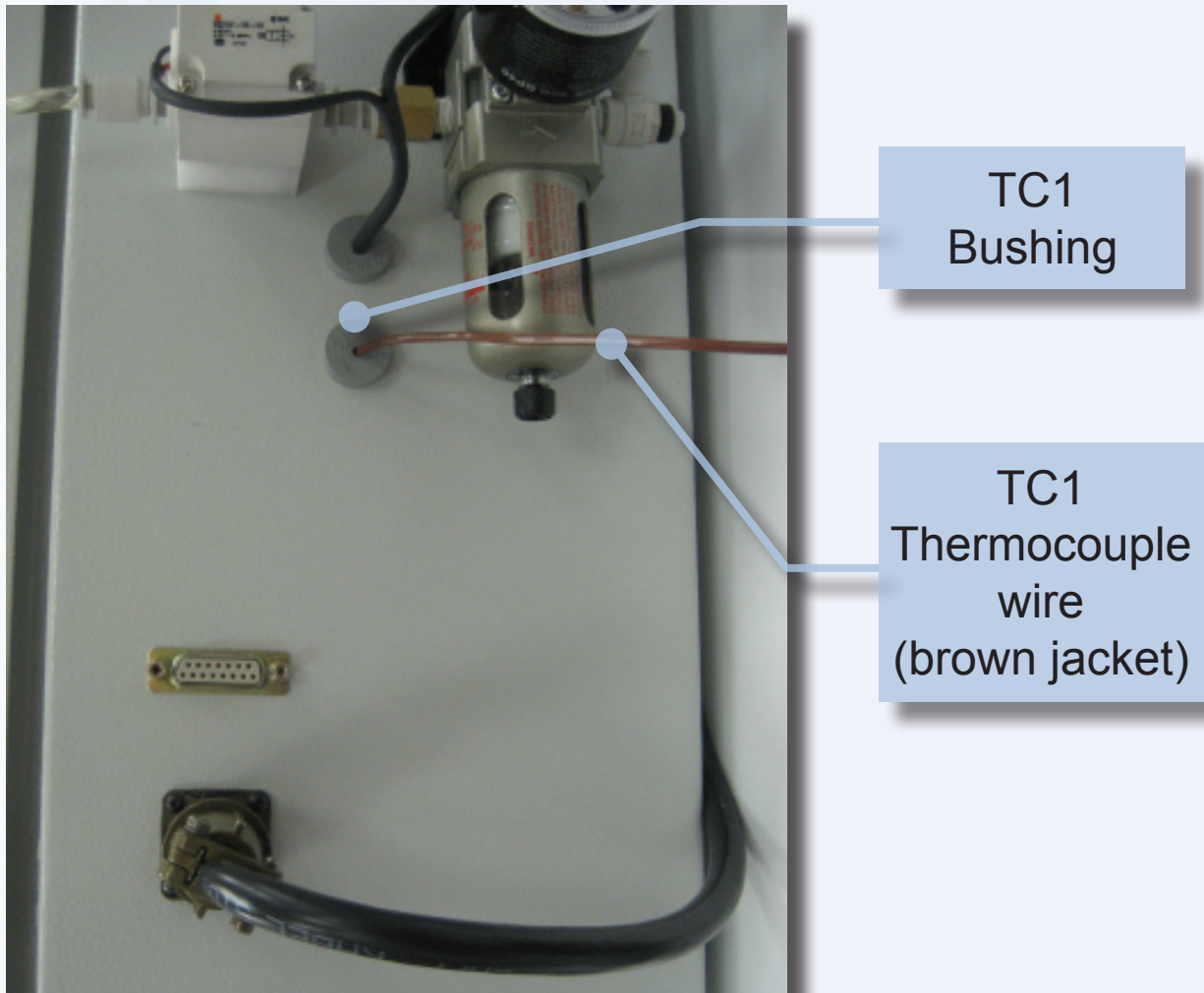
- Connect and tighten the four pin (female) circular metal bodied connector onto the matching fitting labeled: **Light Output 24VDC**



Note: The connector is keyed for proper orientation

Set up procedure: (Continued)

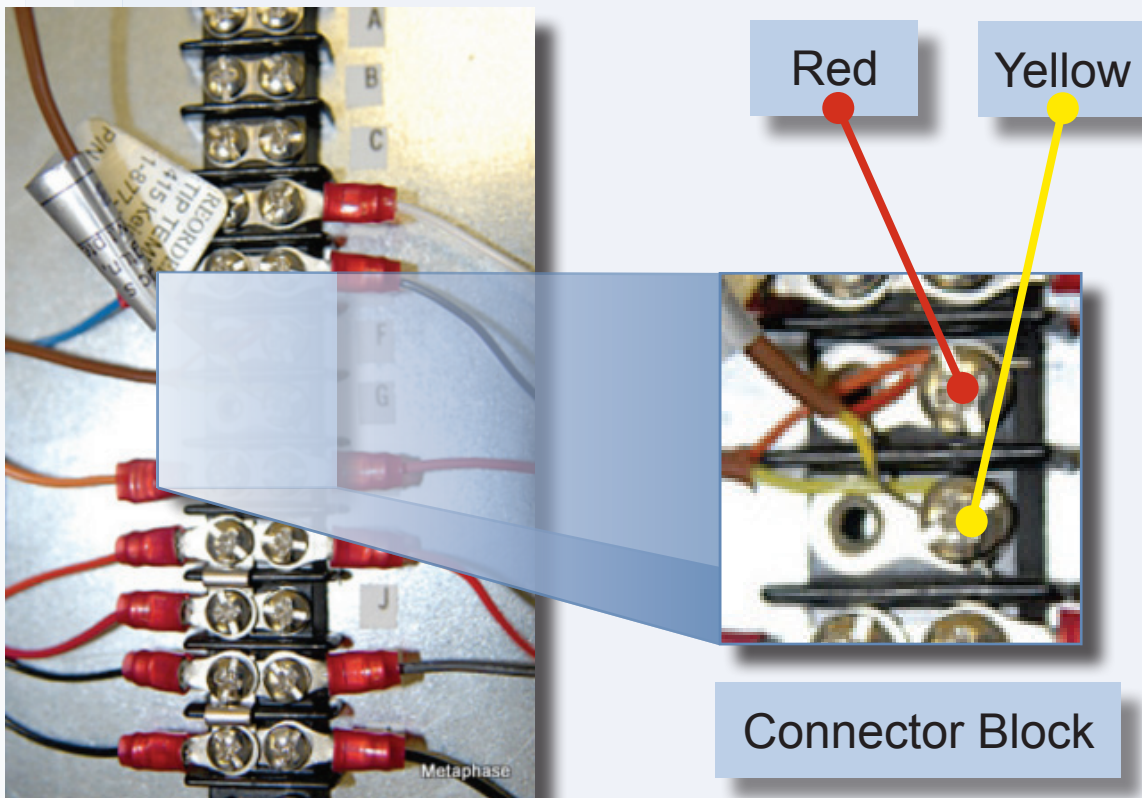
- Install temperature sensor wire (thermocouple)



- Install the thermocouple by threading it through the plastic bushing in the side of the housing labeled: **TC1**.

Set up procedure: (Continued)

- Open the box by turning flat key latch counterclockwise with a suitable tool.
- Install temperature sensor wire (thermocouple) to the controller.

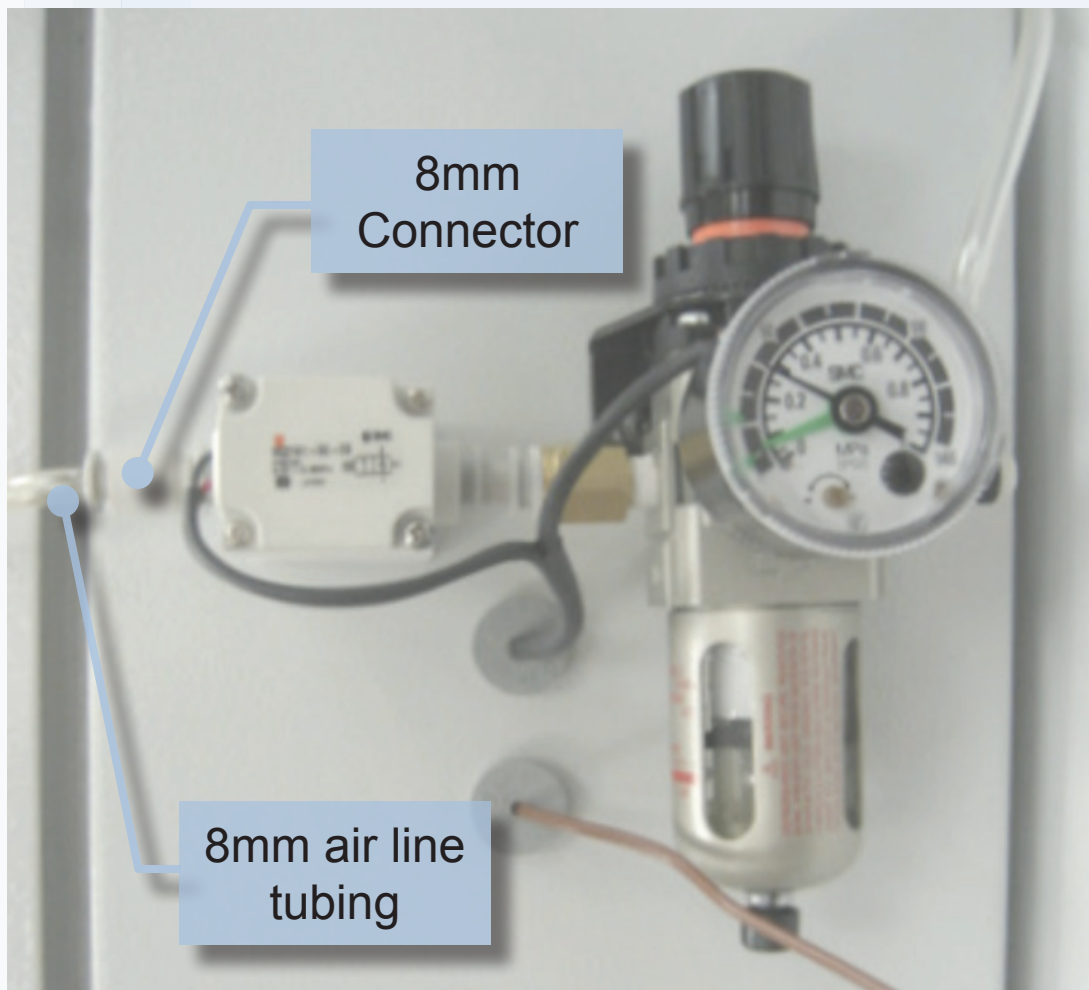


- Pull enough wire through plastic bushing to reach inside the terminal block. Thermocouple is hooked up to this terminal block as shown above.

Note that the thermocouple wires are Red and Yellow. Match these colors on the terminal block to position “G” and “F”. For proper operation the thermocouple wires should now be clamped on top of the single terminal screws over top of the set running to the controller.

Pneumatic set up procedure:

- Connect your compressed air supply with 8mm pneumatic tubing to the air input on the press-in style connector onto the matching fitting labeled: **Air In**.

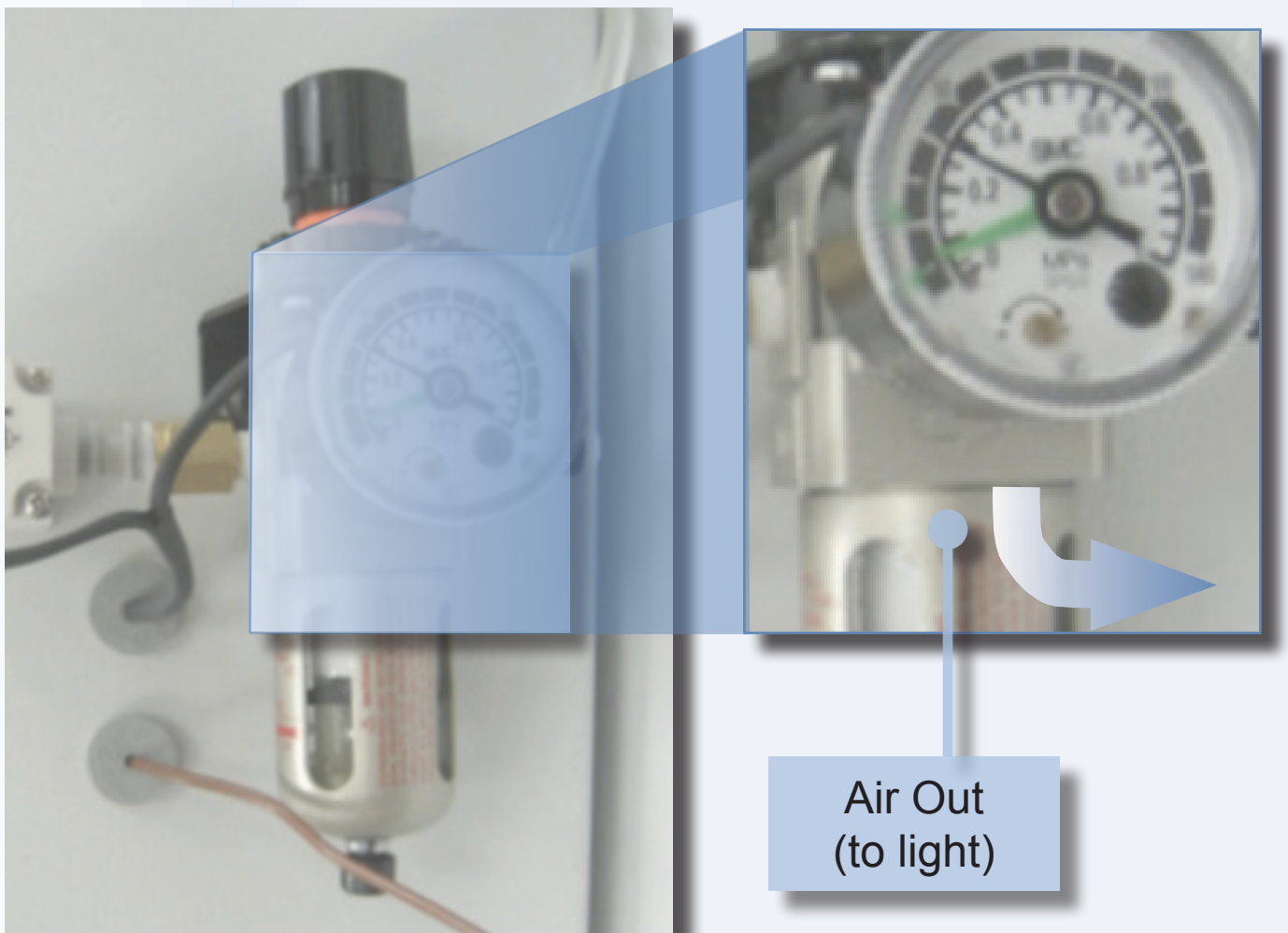


Note: The air supply for the regulator is 100 PSI

The air pressure gauge is preset at 50 PSI. The lights will turn off if the air pressure is below 50 PSI.

Pneumatic set up procedure: (Continued)

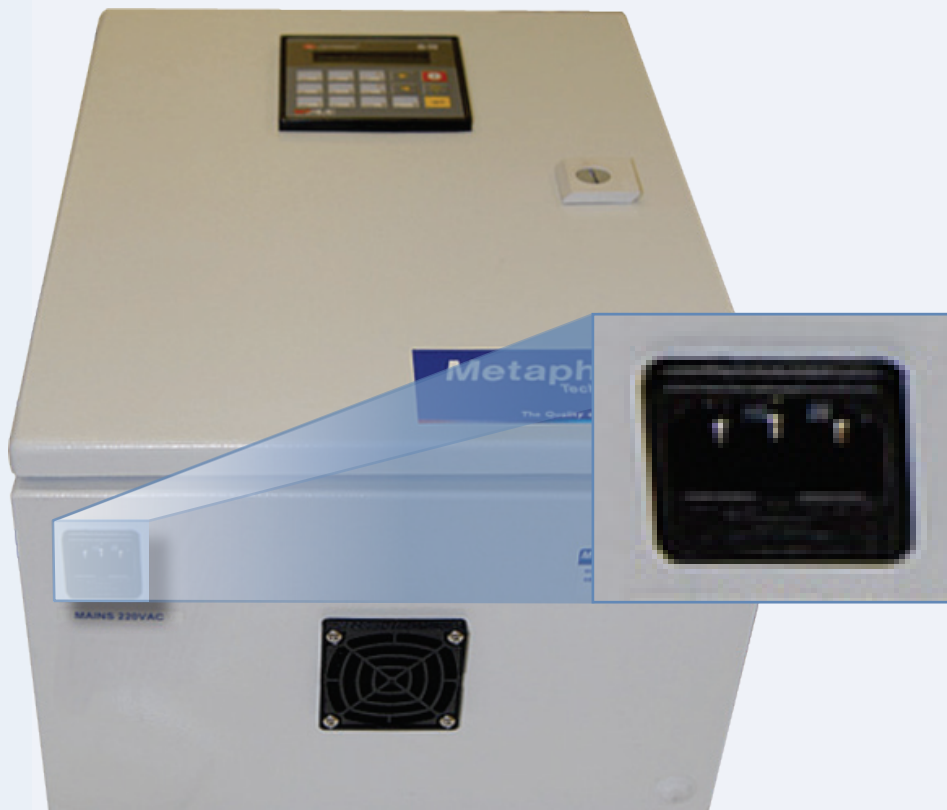
- Connect one end of the provided 6mm air line to the port labeled **AIR OUT** and the other to the fitting on the light. The air output is found on the side of the pressure regulator.



- Turn on air supply from the compressor and check for any leaks.

Connect Line to Controller:

- Your controller has a universal voltage plug located on the bottom side of the enclosure. Insert the customer supplied AC cord into the bottom of the controller and plug into a suitable AC supply. Mains power supply is set for 220VAC.



- Turn on your air supply.

Note: Just because your air is connected and supply does not mean that air will start flowing to the cooling light. Supply is provided by an solenoid driven pneumatic valve.

Operation of the system procedure:

The display on the controller is now in operational mode.
The controller is factory pre-set at the following conditions:



The display should show:

LED: ON AIR: ON POWER: 0 %

If the air flow and pressure is not sufficient, the display will show “LOW PRESSURE ERROR” and the light will not turn on.

- Increase the air pressure and check if the air pressure hose connections are tight, no leak. Then increase the intake air until the “LOW PRESSURE ERROR” disappears.

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Operation of the system procedure: (Continued)



For manual intensity controller, light intensity settings are adjusted by tapping (or holding) either the 3▲ or 6▼ key.

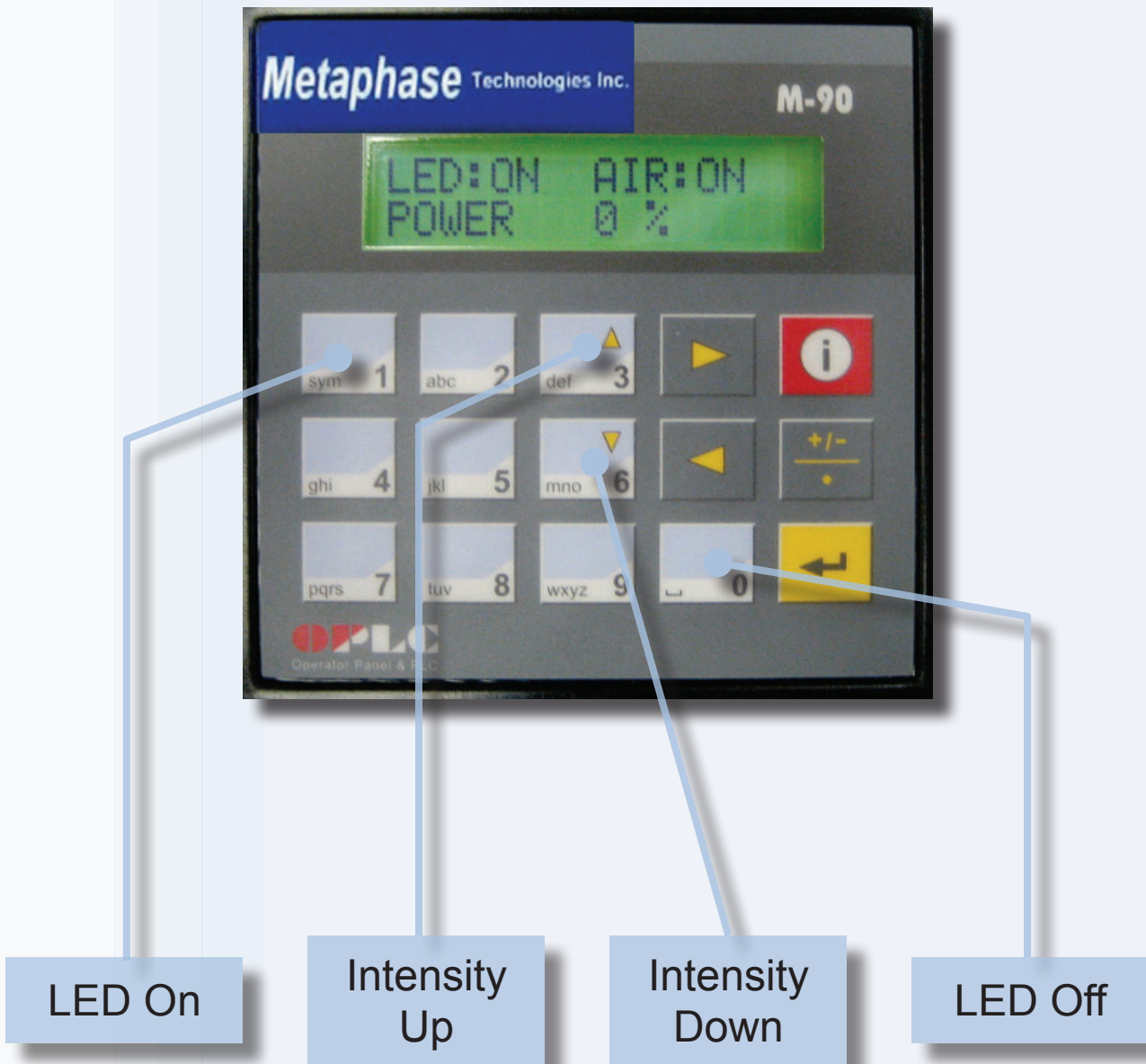
Power settings for light intensity can be set between (OFF) "0" up to "100" (Max)

Turn the light off by pressing the 0 key and cycle the light to ON by pressing the 1 key.

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Operation of the system procedure: (Continued)

The following keys will be used to operate your controller:



Remote Control Operation:

Remote Control Option:

Your controller is outfitted with a 15 pin external D-Sub (DB15) connector. By using a mating connector you can access the remote control functions of this light.

Connect the external control cable to the side port of this controller.

Input the desired control signal from the host control computer. Note: Any input control signal will over ride the manual keypad functions

Dimming Settings:

Set the 8 bits from pin 1 through pin 8 through the DB15 connector. You may specify up 256 intensity increments displaying on the front panel from 0-100. Note any intensity settings will return to 0 = OFF when the power supply is turned off.

Remote Control I/O:

The following table details each pin I/O function for remote intensity control option

Pin #	Signal
1	Dimming (LSB)
2	Dimming
3	Dimming
4	Dimming
5	Dimming
6	Dimming
7	Dimming
8	Dimming (MSB)
9	N/A
10	N/A
11	N/A
12	N/A
13	N/A
14	Alarm Signal
15	Signal Ground (0 Volt)



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