OM-LMPLC
Getting Started

1. Install the OM-LMPLC Procedure Writer Software
2. Select a Comm port on your PC to use to communicate with the OM-LMPLC in Procedure Writer
3. Power the OM-LMPLC by plugging the AC adapter into a Wall outlet and connecting the other end to the PLC
4. Connect the OM-LMPLC to the Comm port using the provided cable
5. Learn the basics with application note #1 included with the OM-LMPLC User's documentation
6. Review the User's documentation for descriptions of all LabMaster's Commands and examples of how to use them

OM-LMPLC
FAQ's

1) How can I reset the OM-LMPLC?
You can reset the OM-LMPLC by placing the PLC in program mode and holding down the mode button for five seconds. After a few seconds, the "Resetting" display will appear with two count-downs. The first count-down is to reset the procedure and the second is to reset the counters. To reset only the procedure, release the mode button before the counters count down is complete.

2) Do you have to have a PC to program the OM-LMPLC?
No. The OM-LMPLC field programmer allows you to program the PLC without the computer. It is a based on a Hewlett-Packard 48G calculator. The programmer will let you adjust timing, change steps, and manually change outputs or counters.

3) What happens if I need to replace a Solid State Relay?
The solid state relays (SSR) are held in the OM-LMPLC's printed circuit with sockets for easy replacement. The part numbers and vendors for both the AC and DC versions of the SSR are included in the User's documentation.

4) How do I connect an input to the PLC?
The OM-LMPLC User's Documentation gives examples on how to connect inputs to the OM-LMPLC.

5) When I turn the OM-LMPLC to program mode the outputs do not turn off, is this a bug?
The outputs will remain on until the OM-LMPLC is shut off or you to explicitly turn them off. If you need to turn the outputs off immediately, use the output enable button.

6) Why is it when I read the program out of the OM-LMPLC, the custom descriptions for the digital inputs and outputs are lost?
Only the custom counter descriptions are stored in the PLC, not the digital outputs or inputs. Therefore, when you read the program into a new procedure in Procedure Writer they won't be there. To preserve these custom descriptions, load the original procedure first and then read the procedure into the PLC.

7) How can I reset the counters and not the procedure I am running?
This can be done by selecting the "On board Counts" from the edit menu. (The OM-LMPLC must be connected). From this dialog, you can set the counters to any arbitrary value you desire, including zero.

8) Does the OM-LMPLC have any analog inputs?
The OM-LMPLC does not have analog inputs. You can easily add an analog level input with some additional circuitry, however, PLEASE review
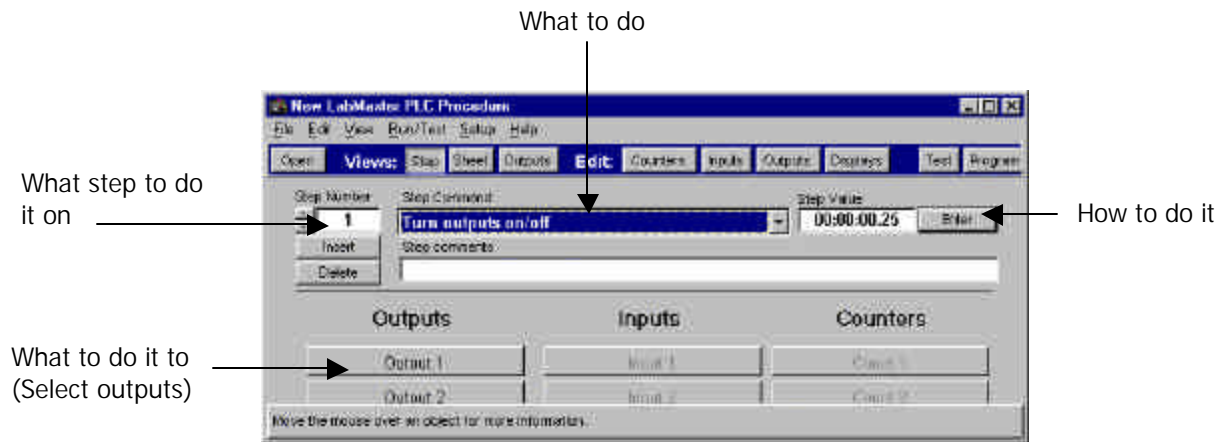application note 2 describes this technique.

OM-LMPLC
Fundamentals

1. The OM-LMPLC follows the procedure you create. You can create the procedure with the Procedure Writer software.

Click On ⟶
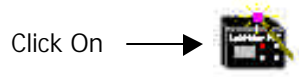
2. Building a procedure requires you to explain "what" to do on each step and "how" to do it. For example, a "what" would be to turn outputs on. A "how" would be how long to do it.

3. After building a collection of steps, connect the OM-LMPLC and press the program button in the Procedure Writer. This will send the program to the PLC.

Click On ⟶ Program

4. Place the OM-LMPLC in run-mode by turning the key-switch to the run position. Run the OM-LMPLC by pressing the "Mode" button.

5. Observe the OM-LMPLC's progress through your procedure by viewing the Procedure run display. This screen shows what the OM-LMPLC is doing including the step, loops, and timing. This is one of six screens of the OM-LMPLC. Scroll through the screens by pressing the mode button.

Run mode