

PC SIMULATOR INSTALLATION AND
MAINTENANCE MANUAL (IMM)

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PC SIMULATOR INSTALLATION AND MAINTENANCE MANUAL (IMM) p/n N120I

GENERAL

1. Please read these instructions carefully to prevent any possible injury or equipment damage.
2. Installer must be a qualified and experienced service technician.
3. Verify the product ratings to confirm that this product will satisfy your requirements and application.

INTRODUCTION

The PC simulator is used to calibrate and setup the controller board to function in the range of the target sensors. Refer to Figure 1 for connection diagram.

INSTALLATION

The PC simulator is typically only used during calibration and setup of the controller board. Normally it will not be permanently installed.

CONNECTION

Plug the simulator into the simulator jack on the controller board. If desired connect a digital volt meter to the red and black terminals on the simulator and adjust the DVM for the 10 VDC scale. (Refer to Figure 1 for connection diagram.

CALIBRATION

There is no calibration for the PC simulator.

OPERATION

PC sensors change their resistance according to the amount of the light they are exposed to. At low light levels the resistance of the sensor is high and at high light levels the resistance is low. Each controller board presents a 10 VDC level to the sensor which is then modified by the sensor according to the light level. At low light levels, hence high sensor resistance, the voltage level read off the sensor will also be high. At high light levels, hence low sensor resistance, the voltage level will be low.

With the simulator knob near 0, a low light level be simulated. The DVM should read between 5 and 10 VDC. As the knob is rotated towards 10, a higher light level will be simulated and the DVM will read between 0 and 5 VDC.

Ensure that any delay switches on the LC8 controller boards is off. Rotate the knob from 0 to 10 and back to 0 several times and observe that the controller switches its LED's On and Off. This confirms that the PC Simulator is working properly.

Perform any calibrations using the Footcandle (FC) vs. VDC table for your particular sensor. Consult the IMM for each controller board for this procedure.

MAINTENANCE

Occasionally inspect the simulator for broken or frayed wires and ensure that the knob can rotate freely. Check the connector terminals for proper operation.

FIGURE 1: PC SIMULATOR CONNECTION DIAGRAM

