

# Simpliport® 180



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A PRODUCT OF CLARK-RELIANCE

The **Reliance® Simpliport® 180 LED Illuminator** has been designed to accept 120VAC or 240 VAC power sources and for a service life of up to 7 years. The LED Illuminators are weatherproof and are rated safe for use in ordinary locations

### **STORAGE and HANDLING**

All units should be inspected upon receipt to ensure that no damage has been incurred during transit. If there is a claim due to damage, it should be filed with the carrier immediately. Units should be stored in a dry and sheltered area prior to installation, in a secure manner where they can neither fall, nor be struck by other objects. The temperature for the storage area should not be outside of the acceptable operating temperatures of -40F (-40C) to 170F (77C).

### **COMPONENTS**

There are four main components that make up the Simpliport Illuminator Assembly: the LED Illuminator, the front viewing hood, the power supply, and the cable connecting the power supply to the LED Illuminator. The cable may have more than one piece depending on the required distance between the Illuminator and the power supply. In most cases, the power supply will be mounted directly to the LED Illuminator.

### **INSTALLATION**

**CAUTION: All LED Illuminators are tagged with the service conditions for that particular unit. This information is located on the power supply housing. The ratings should be reviewed prior to installation and again prior to start-up, to ensure proper operation in the installed environment.**

### **IMPORTANT**

**Never remove the blue cord between the power supply and illuminator while power is applied. Doing so will cause permanent damage to the LEDs.**

**Note: All installation steps should be performed by a qualified electrician and should be executed in accordance with all applicable national and local codes.**

The LED Illuminator and power supply should be checked to ensure that they contain no foreign matter, and that the conduit hole is in line with existing conduit.

### **Step by step instructions:**

- 1) Install the (4) 5/16-18 Wing Screws into the mounting lugs on both sides of the Simpliport Gage, leaving approximately ¼” unthreaded (Ref. Fig. 1) Note: If retrofitting a new illuminator and hood assembly, remove the existing mounting bars before installing the Wing Screws.
- 2) Install the Illuminator first by attaching the top slots onto the Wing Screws and lowering the bottom slots into place. The Illuminator is assembled to the back of the gage as you will view the level. **Note: The Simpliport Gage must be viewed with the packing nuts facing slightly to the left. Make sure that the Illuminator and viewing hood are in the correct orientation to the Simpliport Gage (Fig. 2).**
- 3) Next assemble the front viewing hood to the Simpliport Gage, making sure that the slots are on the outside of the illuminator sheet metal slots. Attach the top slots onto the Wing Screws and lower the bottom slots into place. The viewing hood is now assembled to the front of the gage as you will view the level.
- 4) Tighten all four of the Wing Screws to secure both the illuminator assembly and the viewing hood.
- 5) The unit’s power supply has wire leads and a fuse ready to connect to the incoming AC power source. Remove the enclosure lid to access wiring. Connect incoming AC power source per local and National Electric Codes. The fused (red) wire is the “Hot” (+) and the remaining white or blue wire is the “common” (-).
- 6) The power supply can be remote mounted if desired. After remote mounting of power supply, if the blue power cord will not reach the power supply, contact your local representative or factory for the required extension cable.

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## Typical Installation

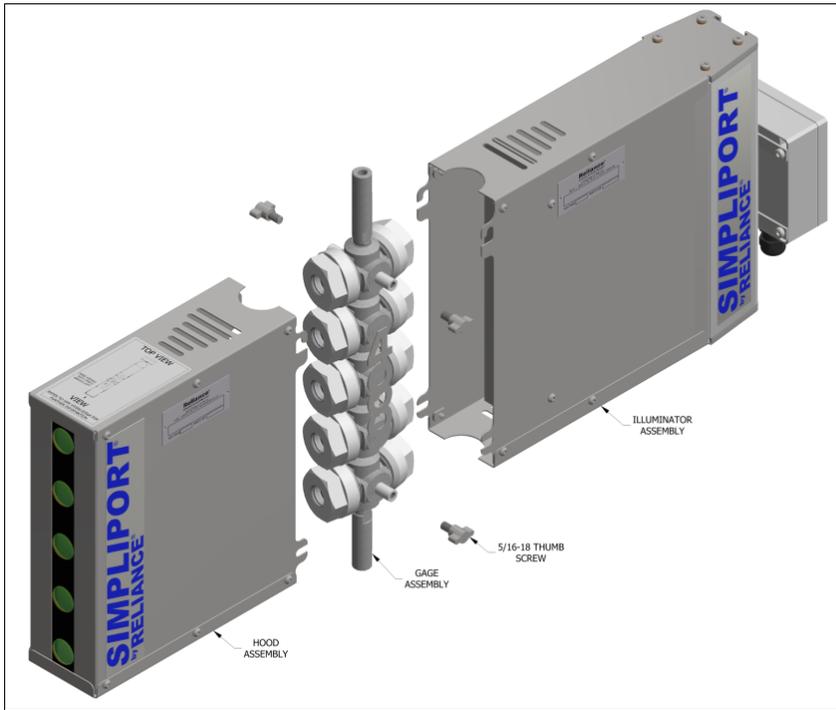


Figure 1

## Viewing the Gage

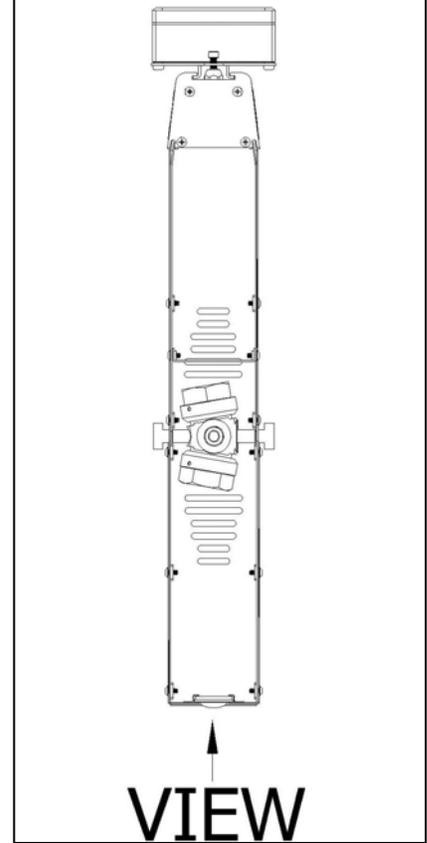


Figure 2

### OPERATION

The Simpliport® 180 LED Illuminator can operate continuously. The operating life of the LED's is up to 7 years under normal conditions.

### ROUTINE MAINTENANCE

Keep the viewing receptors on the front viewing hood and the glass in the illuminator assembly clean using commercial glass cleaners, such as Windex® or similar. Never use harsh abrasives, wire brushes, metal scrapers, or any material that could scratch the viewing receptors or the glass.

The Illuminator and viewing hood may be removed while in operation to inspect the Simpliport® Gage.

### SPECIFICATIONS

Power Supply:	115/230 VAC @ 50-60 Hz
Max Power Consumption:	500 mA
Est. Life:	Up to 7 years (continuous)
Agency Approvals:	FM/CFM Ordinary Locations
Wire Size:	Min 16 AWG - 14 AWG Consult factory for alternate size AWG size option
Max dist. from power supply to light:	1000' (305 M) Consult factory for different length
Ambient Temperature:	-40F (-40C) to 170F (77C)

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