

RC-150™ Electronic Swell Shade Operator

Smooth, quiet, and powerful



The Model RC-150™ Swell Shade Operator represents another important step in Peterson's continuing application of modern technology to pipe organ building in ways that truly make sense.

The RC-150's microprocessor-based motion control system automatically compensates for various load conditions to smoothly accelerate and decelerate the shades. Beginning with standard factory settings, the organ builder may match the RC-150's shade position and speed parameters to the individual characteristics of a particular swell shade system by pushing buttons in response to clearly worded instructions on an LCD message screen. A number between 0 and 100 represents the amount that the shades will open at each shoe position. The speed for each increment of open and closed direction travel is represented by the words Slow, Medium, or Fast.

If desired, speed, acceleration, and deceleration performance may be "fine tuned" to your exact requirements by following additional simple instructions. After experimenting with any of these settings, you may return to the original factory configuration instantly at any time.

Several features that had been suggested by users of the earlier Model RC-100 have been incorporated into the design of the RC-150. These include the availability of sixteen shoe position stages; provisions for using contacts which make to close rather than open the shades; a dual-primary transformer and voltage selector switch for 115 or 230 Volt AC operation; accommodations for use with 12 to 18 Volt or 24 Volt DC systems; and silent relay-free direction control. A built-in shoe test feature lets you verify whether all shoe contacts are "seen" by the RC-150. Selection of

clockwise- or counterclockwise-to-open motor direction has been simplified and no longer requires moving of wires.

The RC-150's Motor Module consists of the same gear motor and precision motion sensing potentiometer that are well known from earlier models and proven in thousands of installations, yet the new motor drive circuitry offers a significant increase in power and a wider range of speeds. An automatic power monitor will discontinue current to the gear motor after a predetermined time if a problem with the shade system causes the motor to stall. The shades may be set to open, close, or remain in the position determined by the expression shoe when the organ power is turned off.

Microprocessor control of speeds and positions for superior performance.

Simple set-up...precisely match operation to your installation.

Wider speed range and more powerful than earlier models.

Full control over acceleration and deceleration for smooth motion profiling.

Eight and sixteen stage models available.

Automatically closes or opens shades when organ is turned off if desired.

Gear motor durability proven in over 5000 installations.

Quiet operation; no mechanical relays.

Selector for 115 or 230 Volt operation.

TECHNICAL INFORMATION

