IQ plus® 810 Digital Weight Indicator
4- and 16-Channel Relay Boards
PNs 19365 and 19373

Relay racks can be mounted on standoffs or bolted to the main mounting panel on IQ plus 810 models to allow 5 VDC indicator signals to operate AC or DC working voltages. This allows the indicator to control (or receive input from) peripheral equipment operating at various voltages.

Individually fused input and output relays are designed to plug into either the 4-channel rack or the 16-channel rack. The AC output relays are rated at 3 A working voltage, with a 4A fuse. Both input and output relays are available in either AC or DC voltage configuration. Each rack has a fuse tester for troubleshooting and one spare fuse.

A single 4-channel rack can be mounted in any of the IQ plus 810 models:

- On the SS and HE models, the relay board is mounted in pre-drilled holes in the panel holding the main CPU board (see Figure 1). For an 8-channel system, two 4-channel racks can be mounted side by side in SS or HE models as shown in Figure 1.
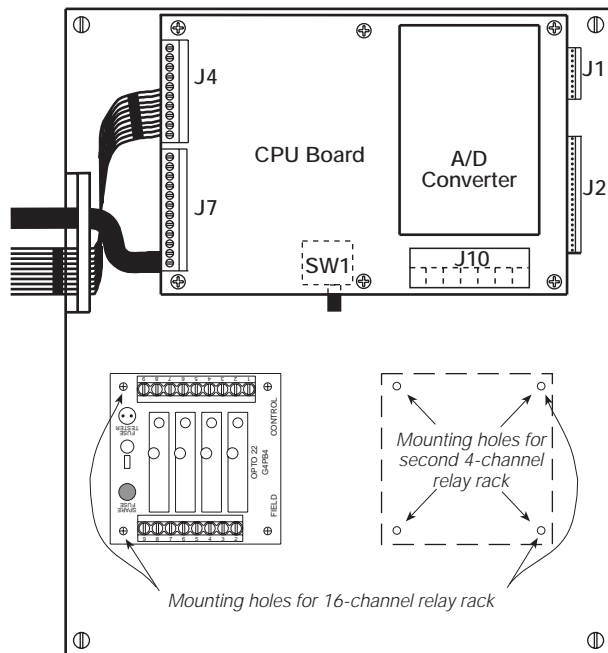

Figure 1. SS/HE Panel-Mounted 4-Channel Relay Rack

- On the desktop (DT) models, the relay rack is mounted on a pre-drilled plate which is installed behind the CPU board using the supplied standoffs (see Figure 2).
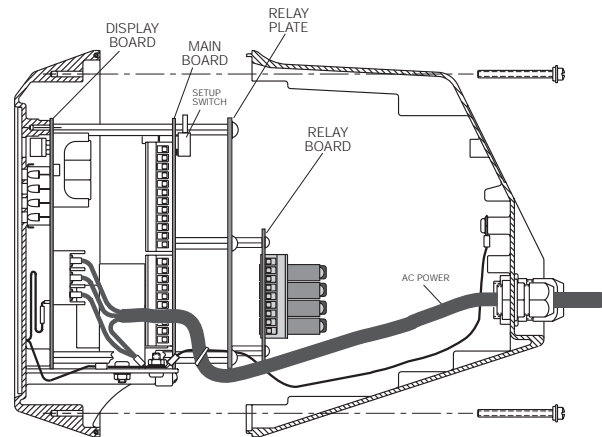

Figure 2. Installed 810 DT 4-Channel Relay Board

If more relays are needed, use the optional 12 TTL Setpoint Output Expander Board, PN 19362.

The 16-channel rack mounts in same outer holes as those used for the 4-channel racks in the SS and HE models. The desktop (DT) model will not accommodate the 16-channel rack.

Wiring connections vary according to particular combinations of input and output relays chosen for the application. Sample wiring diagrams in Figures 3 through 5 on the following pages show the general wiring principles.
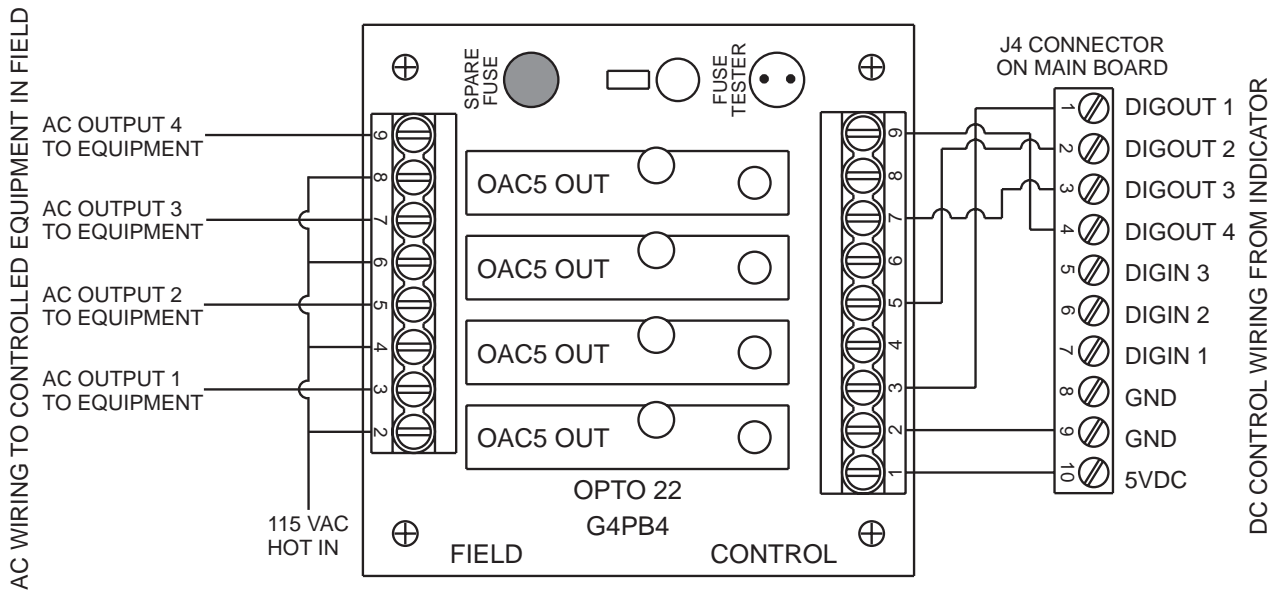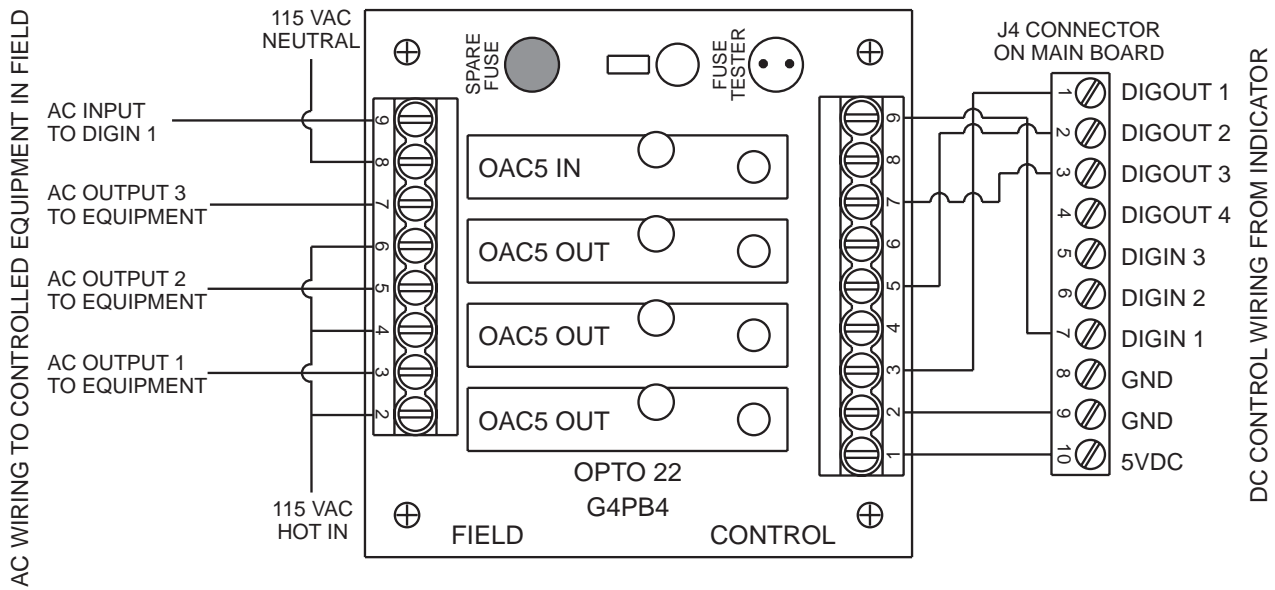
Figure 3. Relay Wiring for 4 AC Outputs

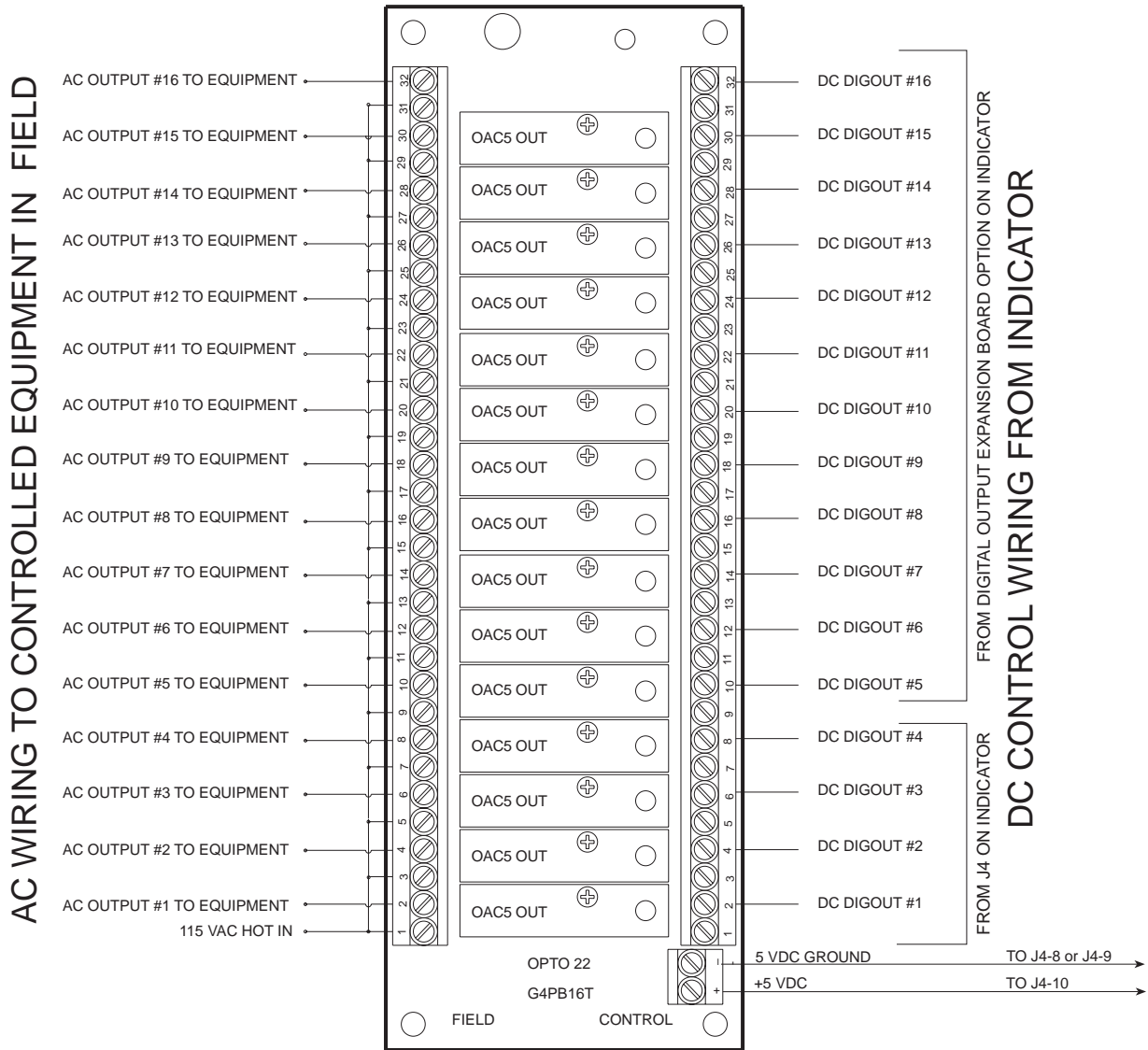*Figure 4. Relay Wiring for Three AC Outputs, One Input*

Figure 5. 16-Channel Relay Rack with External 5VDC Power Supply