

02555-000 - POWR-TOUCH® 2.5

POWR-TOUCH® 2.5 SIMULTANEOUS OPERATION GYMNASIUM CONTROL CENTER SPECIFICATIONS



PORTER No. 02555-000 POWR-TOUCH® 2.5 SIMULTANEOUS OPERATION GYMNASIUM CONTROL CENTER

Wall-mounted TouchPad control system shall be designed as an alternate to conventional keyswitch-type controls, to operate basketball backstops, divider curtains, electric height adjusters, overhead volleyball systems, batting cages, mat movers, and power control for auxiliary gymnasium electrical equipment such as lighting, scoreboards, etc. (Standard keyswitch-type operation shall not be considered as equal.) TouchPad control shall be capable of operating a maximum of 128 basketball backstops or other gymnasium apparatus, and a maximum of 32 units of auxiliary equipment. For safety of operation, the Powr-Touch® 2.5 TouchPad is designed to require constant pressure on the pad button to control the gymnasium apparatus. Control of the auxiliary equipment is accomplished by a single touch of the appropriate button.

The Powr-Touch® 2.5 TouchPad control system shall offer a time saving operational control feature for multiple operation of basketball backstops, height adjusters and curtains without requiring additional control wiring. Basketball backstops, height adjusters and curtains may be operated individually or simultaneously by pressing a single button (for safety reasons; a maximum of eight backstops or height adjusters, or a maximum of four curtains per TouchPad**). Systems that allow for more than eight backstops or height adjusters, or more than four curtains and other equipment to be operated simultaneously from the same TouchPad, shall not be accepted. Each relay set can be programmed to accept eight memory address assignments for up to eight different operation combinations for each basketball backstop, height adjuster or curtain (operate one, two, three and up to eight units individually or simultaneously, curtain simultaneous maximum is four units). Each desired operation mode shall be selected at the TouchPad by entering the assigned backstop, height adjuster or curtain number, or combination backstops, height adjusters or curtain number. Systems without simultaneous operation and multiple operation mode capability shall not be considered equal.

TouchPad shall incorporate a four-digit programmable security code to prevent usage by unauthorized personnel. The TouchPad security code may be easily reprogrammed at any time as desired to prevent unauthorized usage. TouchPad will automatically revert back to the secure mode if no button is used within a thirty-second time period. Multiple TouchPads may be utilized (seven maximum) when operation from various locations is desirable – specify as required. Systems without multiple TouchPad capability shall not be considered equal. TouchPad assembly shall be flush mounted in a standard four inch square electrical box (4" x 4" x 2½") with a 12-volt control circuit to relay panels strategically located on walls or roof framing structure, to minimize power conduit runs and to provide substantial savings on electrical wiring requirements.

The Powr-Touch® 2.5 control system shall include a minimum of one dual powered relay panel** (16 maximum, per network). Each relay panel shall contain two banks of eight (16 total) 30 amp load rated relays for operating eight momentary-controlled type (up and down) 120 volt or low voltage pieces of equipment. Each bank of relays shall be independently powered by 120 volt line power (two (2) dedicated circuit breakers per relay panel). Each relay panel shall also include two maintained 30 amp load rated relays for power control of lighting, etc. Single circuit (120 volt line power) relay panels and relays with a load rating of less than 30 amps shall not be considered equal. Size of each relay panel enclosure is 4-3/8" x 14" x 17" (11.2cm x 36cm x 43cm).

The Powr-Touch® 2.5 control system shall feature a tri-color LED at the TouchPad for positive user feedback. The TouchPad LED illuminates when the proper security code is entered (green), when confirming a TouchPad button is fully depressed (amber), and while operating equipment up or down (red). The system shall also include additional LED's at the TouchPad and relay panel circuit boards to ensure the system is receiving power, wired correctly, and that the relays are functioning properly. TouchPad wiring shall also be fuse protected for additional circuit protection.

To assist in identifying the equipment number assignment for single or multiple operation, the Porter No. 92500-000 Custom Equipment Legend shall be provided as standard equipment with every Powr-Touch® 2.5 control system. The wall mounted legend is positioned above the TouchPad location for a visual reference of the equipment layout. Refer to sheet E-92500 for more information and specifications. Control systems not offering a custom equipment legend shall not be considered equal.

Wiring of all electrical components shall be in accordance with local codes, and in accordance with manufacturer's instructions. All conduit, wiring, junction boxes, and components not specified here in shall be furnished and installed by the electrical contractor. In addition, relay panel dip switch settings and relay set programming per the facility's requirements shall be the responsibility of the electrical contractor.

**One relay panel (02555-000) system can individually or simultaneously control four backstops, two relay panels are required to operate up to eight backstops simultaneously. Curtain maximum is four regardless of number of relay panels in system.

