## TSC1500 GYM CONTROL SYSTEM

## Total System Control 1500

Wall mounted touchpad control system shall be designed as an alternate to conventional key switch type controls, to operate backstops, divider curtains, electric height adjusters, overhead volleyball systems, batting cages and power control for auxiliary gymnasium electrical equipment such as lighting, scoreboards, etc. The TSC1500 shall be capable of operating a maximum amount of 160 devices and a maximum of 50 auxiliary devices. Anything else less is not considered equal. With safety in mind, the TSC1500 Key Pad requires constant pressure on the pad to control gym equipment. Control of auxiliary equipment only requires a single press of the pad.

The TSC1500 shall provide a time saving control feature for multiple operations of basketball backstops, height adjusters, curtains and auxiliary devices. These devices may be operated individually or in a group setting. With each device being able to be on its own dedicated circuit, more than 8 devices can be ran simultaneously. There will be one group type for auxiliary devices and one for standard moving devices. There are a total of 75 possible moving groups the system can control and a total 24 auxiliary groups it can control. This allows having up to multiple backstops in a group or multiple curtains in a group for example or turning on multiple sets of lights. Any other system capable of less is not considered equal.

The security $\log$ in will be a four digit password. This password can be changed at any time. It can also be manually reset to factory default from the relay board. If no button has been pressed within the time window of thirty seconds the system will lock and log itself off. The TSC1500 can use a maximum of up to 8 keypads within a system. Key pad shall be flush mounted into a standard square electrical box (4" X 4" X 2 $1 / 2 "$ ) with a 12 volt circuit to relay panels.

The TSC1500 will include a single master relay node capable of operating 10 devices. The system is expandable up to 16 relay node boxes until 160 devices are reached. Relay circuits are capable of up to 250 v with a 30 amp load. There are 20 relays per relay node. Size of each relay box is 18 " wide X 24 " tall X 6 " deep.

The TSC1500 will feature a tri color LED and a buzzer to provide feedback to the user during operation. The system shall also include an LED at the relay board to show activation of relay. The keypad is fuse protected at the master relay board for circuit protection. Control systems not utilizing an LED and buzzer will not be accepted as equal.

Exclusive to PSS, the TSC1500 has a manual control override feature that will allow the operator to manual operate each device individually in the event of a Key Pad failure via the TSC-MC (included).

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 shall be furnished and installed by electrical contractor. In addition, relay panel dip switch settings and relay set programming per the facilities requirements shall be the responsibility of the electrical contractor.

## OPTIONS:

TSC1500-RB -Additional relay node for control of more than 10 devices.
TSC1500-KP -Additional Key Pad for ease of access in large facilities.
TSC1500-RB-UL -UL listed relay node for projects requiring a UL listed gym control system.





COMMUNICATIONS WIRE ALL
2:18AWG DUAL TWISTED PAIR 12V
SHIELDED CABLE OR A 22-18 AWG 4 CONDUCTOR CABLE.

ALL WIRE PROVIDED BY ELECTRICIAN

IMPORTANT: THE VOLTAGE PROVIDED mUST BE STABLE. IF UNSTABLE CAN CAUSE PROBLEMS WITH SYSTEM.

ELECTRICAL REQUIREMENTS
$120 \mathrm{VAC}, 1 \mathrm{PH}, 60 \mathrm{HZ}$,
20 AMP CIRCUIT(ONE CIRCUIT PER MOTOR) 30 AMP CIRCUIT(TWO MOTORS PER CIRCUIT) -MAX OF 10 INDIVIDUAL INCOMING CIRCUITS PER BOX
-RECOMMENDED ALL DEVICES BE ON THEIR OWN DEDICATED CIRCUIT. -ALL TERMINALS ACCEPT UP TO 10 AWG WIRE.

