

T5 Series/EMS Relay Application

The T5-Series consoles can have a 10-Amp module, 2-Amp module and Power supply module. (The TS-EMS comes standard with the 10-amp relay module). Each of these are better suited for specific applications.

Relay	Typical Applications
Power Supply Module (2-Amp)*	Remote alarms, STP control
TS-RLY Relay module, 8 channels (2-Amp)*	STP control, Solenoid valve control
TS-10ARLY Relay module, 6 channel (10-Amp)*	Dispenser control.

A characteristic of the 10-amp relay is that it may allow a small amount of current, up to 2mA, to pass through when in its inactive state (open). Certain devices can misinterpret this normal pass-through current as an active relay state (closed). Power supply and 2-amp relays allow only 0.2mA to pass. Use the 10-amp relay for higher current load applications.

A situation can occur when a site uses the 10-amp relay module (TS-10ARLY) with products that require low amperage. As an example, the TS-RA1, TS-RA2 or TS-RK may go off continuously at a lower than normal level. 2 mA is not enough for energizing the relay in the TS-RK, but is sufficient to drive a buzzer directly at low level. In such cases it is recommended to use the power supply or TS-RLY.

* Caution

Surge, in-rush or startup current can exceed a relay's rated amperage and damage the relay.

Do NOT expose relays to startup current that exceeds their rated values.

- If a 2 Amp relay startup current exceeds 2 amps, use a 10 Amp relay.
- If a 10 Amp relay startup current exceeds 10 amps, an extension relay must be used.

Refer to the T5 Series Installation Manual 000-2150 and bulletin TB0209-04 "Alternate Wiring for Positive Shutdown of Dispensers", for more information.

If you have questions about this equipment, contact Franklin Fueling Systems Technical Support at 1-800-984-6266