**IT-R4S Relay Control**  
**ASCII Controlled Relay Module with Serial Loop Through**

**DESCRIPTION**

The IntelliTools IT-R4S is a multi-purpose relay module allowing four internal single pole double throw relays to be controlled by an RS-232 port using a simple ASCII control protocol. Additional IT-R4S modules can be “daisy chained” to provide control of additional modules or other RS-232 devices. The IT-R4S passes RS-232 control data out to other RS-232 controlled devices via the unit’s serial output port. The module is powered from a standard 12 VDC power supply (not provided). An integral mounting plate with four holes is provided to easily mount on FSR’s RK-2 rack mount, standard rack rails or standard two RU blank plates. The IT-R4S is capable of supporting a wide variety of relay controlled devices making it an essential tool for AV and Control System installations.

**FEATURES**

- Configurable for a variety of applications
- Can be easily reconfigured “on the fly”
- Quick, easy setup
- Small footprint
- Four high quality 5 amp relays
- Screw terminals for fast hookup
- Integral mounting plate with mounting holes
- Simple ASCII command set
- Units can be “daisy chained” through the serial loop port without sacrificing a port on the control system.
- Relay Status and Power LED indicators
- RS-232 I/O Port Status LED Indicators

**APPLICATIONS**

- Shade and screen control.
- Relay contact closure
- Speaker muting
- Relay remote control
- Can be added anywhere relay switching is needed via RS-232 control

**FSR Inc.**

244 Bergen Boulevard, Woodland Park, NJ 07424  
Phone: 973.785.4347 · Fax: 973.785.4207  
Web: www.fsrinc.com · E-mail: sales@fsrinc.com
**TYPICAL APPLICATION**

- TO AC POWER - AC ADAPTER SOLD SEPARATELY MODEL: IT-PS1 FSR PN: 16805
- RN WPCS, HOST PC OR OTHER CONTROL SYSTEM SERIAL PORT
- RS-232
- LOW VOLTAGE LIGHTING INTERFACE
- RELAY CONTACT CLOSURE FOR LIGHTING

**SPECIFICATIONS**

### Relay Ratings

- **Relay Contact material**: Ag alloy
- **Max. Switching voltage**: 50 VAC, 30 VDC
- **Max. Switching current**: 5 A (NO)/3 A (NC)
- **Max. Switching capacity**:
  - NO: 250 VA (AC), 150 W (DC Resistive)
  - NC: 150 VA (AC), 90 W (DC Resistive)
- **Min. permissible load**: 10 mA @ 5 VDC (for contact cleaning)

### Power

- **Power supply**: 12 VDC @ 160mA fully loaded. FSR IT-PS1 #16805 sold separately

### RS-232 Control Input

- **Connectors**: Screw terminals
- **Format**: RS-232
- **Protocol**: ASCII
- **Serial looping**: Via IN/OUT loop ports

### Mechanical and Environmental

- **Connectors**: Screw terminals
- **Overall dimensions (see drawing for details)**: 4.25"L x 3.44" W x 1.57" H
- **Shipping weight**: 0.9 lbs.
- **Ambient temperature**: 0 to 50°C
- **Ambient humidity**: 5% to 95% non-condensing

---

**Manual available on the FSR website.**

Specifications are subject to change without notice.