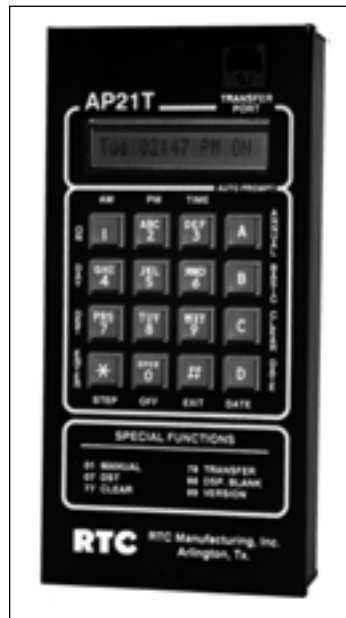


# AP21 SERIES TIME SWITCH



**AP21**  
AC/DC Powered

Laptop Programmable with  
21PC Software



**AP21T**  
AC/DC Powered  
with Program Transfer



**AP21TR**  
**AP21TRDC**  
Compact Size: 2" x 2 1/2" x 4"

- 16-character, alpha-numeric, Liquid Crystal Display (LCD)
- Daylight Savings Time entered from the keyboard
- 48-hour capacitive back-up, no batteries
- Auto Prompt for user friendly programming
- 16 Powerful Program Steps
- 10 Skip Plans for Holidays
- 15 Amp relay output
- Program Transfer from unit to unit (AP21T & AP21TR)
- Laptop Computer Programmable using the 21PC Software
- AP21's are AC/DC, AP21T's are AC/DC, AP21TR's are AC only, AP21TRDC's are DC only
- Smallest Time Switch ever built for Traffic Applications (AP21TR)

# RTC

RTC Manufacturing, Inc.

"Serving the traffic signal industry since 1987."

[www.rtc-traffic.com](http://www.rtc-traffic.com)

# AP21 SERIES TIME SWITCH

The family of AP21's are single circuit, calendar programmable solid state time switches. They are used for switching electric circuits according to a pre-set time and date program. The AP21's AUTO PROMPTING alpha-numeric display makes programming fast and simple. Program transfer can be accomplished by using a Laptop Computer or an AP21T. The AP21TR is only 2" x 2 1/2" x 4" making it the smallest time switch ever designed specifically for traffic applications. The AP21 and AP21T draw their power from any 120VAC or 12VDC supply. The AP21TR is 120VAC powered and the AP21TRDC is 12VDC powered.

## STANDARD FEATURES

- 16 character, alpha-numeric, easy to read **Liquid Crystal Display** (LCD). Optional back-lit display available.
- **Automatic Daylight Savings Time** (DST) compensation.
- DST data entered from keyboard - **makes future DST changes quick and easy.**
- Time of Day entered in **12-hour format.**
- Automatic Leap Year compensation.
- 48-hour capacitive memory back-up - **no batteries to replace.**
- The display "Auto Prompts" the operator through the programming process - **very user friendly.**
- **16 powerful program steps.**
- Single Day, Week End, Week Day, or Every Day programming capability for each program step.
- **10 Skip Plans** - Each skip plan prevents the time switch output from activating on a specific day or consecutive days.
- **Program Transfer** from one AP21T to another, or from an AP21T to an AP21TR (AC or DC).
- **Laptop Computer Programmable** - using the 21PC Software.
- SPDT **Relay Output rated at 15 Amps** at 115 VAC resistive load.
- AP21 and AP21T's work on **120VAC and 12VDC** power sources.

## SPECIFICATIONS

Display . . . . .16 character, Alpha-Numeric,  
Liquid Crystal Display (LCD),  
Back-lit Display Optional

Keyboard . . . . .16 Key, Positive Action Push Button

Back-up Power . . . . .48 Hour Capacitive

Electrical Connection . . .Terminal Block (#12 to #20 AWG)  
or CPC Connector with Harness (optional)

Output. . . . . SPDT Relay Rated at 15 Amps  
115 VAC Resistive Load

Line Voltage . . . . .95 to 135VAC, 60 HZ and 12VDC

Time Base . . . . . AC Powered (power line)  
Back-up and DC Powered +/- .005% Crystal

Size . . . . .7.6"h x 3.7"w x 1.55"d (AP21)  
8.0"h x 3.7"w x 1.55"d (AP21T)  
2.0" x 2.5" x 4.0" (AP21TR)

Temperature Range. . . . . -30 to +74 Degrees C

## ORDERING INFORMATION

Part Number	Description
AP21	Single Circuit Time Switch
AP21T	Single Circuit Time Switch with Transfer
AP21TR	Single Circuit Time Switch (2" x 2.5" x 4")
AP21TRDC	12VDC Version of AP21TR
21PC	Laptop Programming Software & Cables
EL	Electro-Luminescent (back-lit) Display
21048	CPC Connector with 48" Wiring Harness
21072	CPC Connector with 72" Wiring Harness
91107	Program Transfer Cable

NOTE: All AP21 and AP21T's are AC and DC powered,  
AP21TR is AC and AP21TRDC is DC powered.

## RTC Manufacturing, Inc.



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