

TIME SWITCHES

AP21 SERIES

RING BELLS.. CONTROL LIGHTING, HVAC AND SECURITY EQUIPMENT.

UP TO 30 POWERFUL PROGRAM
STEPS - 210 EVENTS PER WEEK.

UP TO 10 ANNUAL SKIP PLANS FOR
SKIPPING HOLIDAYS AND SPECIAL
EVENTS.

EASY - AUTOPROMPT PROGRAMMING

POWER FAIL BACK-UP. KEEPS TIME
AND PROGRAM FOR 48 HOURS.
NO BATTERIES REQUIRED!

PROGRAMMABLE, AUTOMATIC
DAYLIGHT SAVINGS TIME, AND LEAP
YEAR ADJUSTMENT.

RELAY OUTPUT - 15 AMP SPDT
LATCHED or 0-99 SEC. MOMENTARY
OPERATION.

DUAL POWER - 120 VAC, 60 HZ or 12 VDC. SEPARATE MODELS ARE NOT
REQUIRED. 50 HZ OPTIONAL.

LOW POWER - IDEAL FOR SOLAR APPLICATIONS.

PROGRAM TRANSFER - AP21T



TWO YEAR WARRANTY



**APPLIED
TECHNICAL
SYSTEMS**

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DESCRIPTION

The AP21 SERIES Time Switches 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. They are designed to control lighting, heating, ventilating, air conditioning and security systems where holiday skip operation is desired.

There are three basic models: the AP21, the AP21T and the AP21TR. The AP21 and AP21T have an AUTO PROMPTING, alphanumeric display and a 16 key, positive action keyboard that makes programming fast and simple. They are identical except that the AP21T has a Transfer Port. This port allows programs to be transferred from one AP21T to another, or to another AP21TR. Programs can even be transferred to or from a computer with the optional AP21COMP Software and Adapter kit. The AP21TR is a plug-in relay module that is programmed from an AP21T, or a computer, using the AP21COMP Software. Once programmed, the AP21TR will provide the very same switching functions as the AP21T.

SPECIFICATIONS

PROGRAMMING CAPABILITIES

EASY TO USE - 16 character alphanumeric, LCD display and "Auto Prompt" software provides display information to guide the operator during programming.

UP TO 30 POWERFUL PROGRAM STEPS - Select either a 16 step or 30 step program size from the keyboard. Each program step can be programmed for any day of the week, or for all 5 weekdays, or for both weekend days, or for everyday of the week providing up to 105 ON's and 105 OFF's, for a total of 210 events per week.

UP TO 10 SKIP PLANS - A 16 step program has 10 skip plans, a 30 step program has 3. Each skip plan has a starting and ending date during which all events are skipped.

PROGRAMMABLE DST ADJUSTMENT - The AP21 Series Time Switches can be programmed to automatically adjust their time for Daylight Savings Time changes according to U. S. law, even if the law changes.

AUTOMATIC LEAP YEAR ADJUSTMENT

MANUAL OVERRIDE - The output relay can be manually energized or de-energized from the keyboard.

PULSED / MOMENTARY OUTPUT - The output can be programmed to operate as a momentary contact, programmable from 1 to 99 seconds.

ELECTRICAL/PHYSICAL

Dual Power: 95 to 135VAC, 60 HZ (50HZ Optional).
Or 10.5 -15 VDC. Less than 1Watt.

Output: SPDT relay rated at 15 A resistive at 120 VAC or 28 VDC.

Wiring: Terminal block - can accommodate wire sizes from 14 to 24 AWG.

POWER FAIL BACKUP - Program and time keeping are maintained for 48 hours on a rechargeable capacitive backup system in the event of a power failure. The relay output and the display are disabled during backup.

TIME KEEPING - Synchronous with the AC power line. During a power failure it is quartz crystal controlled with an accuracy of +/- .003% throughout its full temperature range.

PROGRAMMED EVENTS - On/Off events are programmable with a one minute resolution and occur at the zero second of that minute.

Size: AP21 - 3.7" W x 7.6" H x 1.6" D.
AP21T - 3.7" W x 8" H x 1.6" D.
AP21TR - 3.6" W x 4.8" H x 2.5" D. with base.

Weight - Approximately 2 lbs.
Mounting - Mounting holes provided.
Operating Temperature Range: -30 to +74 C.

ORDERING INFORMATION

AP21 Time Switch, 1 SPDT Output, 30 Events Per Day, Dual Power - 120 VAC 60 HZ or 12 VDC.

AP21T AP21 with program transfer port.

AP21TR AP21 Plug-In Module 120 VAC 60 hz.

OPTIONS and ACCESSORIES

9100-1021 Connector and 48" Mating Wiring Harness.

9110-0041 Transfer Cable, 6 feet long.

0859-1008 Socket, 8 pin, used on AP21TR.

AP21COMP Software is also available for programming AP21T's and AP21TR's from a MSDOS computer. Contact the factory for all other versions.

FOR ASSISTANCE CALL 800-444-7161