

# Time Control Equipment



- MODEL:** 2520 — CLOCK MODULE  
2521 — DIGITAL CLOCK (FLUSH MOUNT)  
2522 — DIGITAL CLOCK (SURFACE MOUNT)



2520



2521



2522

## FEATURES

- Large, Easy-to-Read Display
- Operates Stand-Alone or as a Correctable Secondary to a Master Clock
- 12-or 24-Hour Display Format
- Built-in Count Up and Count Down Electronic Timer Capability
- Operates from 24 VAC, 120 VAC, or 12 VDC
- Available in Flush-or Surface-Mount Configurations
- 2-Wire Power and Correction
- Highly Accurate Crystal Controlled Time Base
- Battery Back-up Capability Using 9-Volt Battery (not included)
- Ability to Display "Fire" or "BELL" in Response to External Signal
- Hourly Correction Capability

## SPECIFICATIONS

Display: 4 character, 7-segment red LED

Character Height: 2.5" (6.35 cm)

Inputs: Count/Hold, Reset, fast Set, Slow Set, "Fire," "Bell"

Output: Countdown alarm

Power Required: 400 mA @ 12 VDC

500 mA @ 24 VAC

100 mA @ 120 VAC

Shipping Weight:

2520 (Module)—1.5 lbs. (.68 kg)

2521 (Flush Mount)—2.05 lbs. (.93 kg)

2522 (Surface Mount)—2.15 lbs. (.97 kg)

Dimensions:

2520 (Module):

9.5" (24.1 cm) length

4.4" (11.2 cm) height

2.4" (6.1 cm) depth

2521 (Flush Mount):

12.0" (30.5 cm) length

2.9" (7.4 cm) depth

6.0" (15.2 cm) height

Requires 5-gang electrical box

2522 (Surface Mount):

12.0" (30.5 cm) length

6.0" (15.2 cm) height

4.3" (10.9 cm) depth

Associated Equipment:

All Rauland Master Program Clocks

2415 Power Supply

2416 Power Supply

2423 Elapsed Timer Switch Kit

2534 Dual Face Mounting Kit

## DESCRIPTION

The Rauland 2520 Series of Digital Clocks are a series of versatile, highly accurate time keeping instruments. The units are designed to operate as "Stand-alone" clocks, secondary clocks (corrected by a master program clock), elapsed timers, or countdown timers.

The 2520 Series clocks may be operated from either a 24-volt AC source or a 120-volt AC source. In addition, the clocks have the

ability to operate from a 12-volt DC source. The unit's time base can be backed up using a 9-volt DC battery. The clocks operate with a standard 12-hour display; however, they may be readily field selected to 24-hour display. While intended for 60 Hz operation, they may be easily selected for 50 Hz operation. Only two wires are required for clock operation and correction.



Rauland is a Division of AMETEK, Inc.

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## DESCRIPTION (CONT.)

When used in conjunction with a master program clock, corrections are made automatically as follows:

1. Every hour
2. Whenever time is set on the Master Clock
3. When power is restored after a power failure
4. When the master clock adjusts for daylight savings time.

The 2520 Series clocks may be used in time control systems that intermix digital and analog secondary clocks; such systems may be corrected by a Rauland master clock. An adapter module is usually not required in these applications.

Operation as a "Stand-alone" Clock: Operation in this application is accomplished by simply applying power to the unit and adding

"fast" and "slow" set buttons. No connection to a master clock is required.

Operation as an Elapsed Timer: This application requires the use of a Rauland Model 2423 Switch Kit to provide "Count/Hold" and "Reset" functions. The units count minutes and seconds up to one hour and then show hours and minutes up to 99:59 (hours: minutes).

Operation as a Countdown Timer: This application requires the use of a Rauland Model 2423 Switch Kit to provide "Count/Hold" and "Reset" functions as well as "Fast" and "Slow" set switches. The unit counts down from as high as 99:59 (minutes: seconds). An alarm output is activated when the countdown reaches 00:00. This output may be used to directly drive a tone alert device.

A dual mount kit, model 2534, is available for the 2522 Surface Mount unit. The kit allows back-to-back or single clock mounting of the clocks in wall or ceiling configurations.



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