

The TimeKeeper™ DS-017A Count Down Timer with Clock

Timer Mode

- Press **Reset** to select timer mode.
- Turn knob to set desired time. The **Select** button selects minutes/seconds.
- Press the **Start/Stop** button to start the timer.

Clock Mode

Press **Clock** button to select clock mode. Pressing the clock button repetitively will sequence through the following modes.

- Displays hours and minutes in 24 hour mode
- Displays hours and minutes in 12 hour mode
- Displays minutes and seconds.
- Displays month and day.

Setting the time:

*Press and hold the **Clock** button to enter set time mode.*

- Turn the **Knob** to set the hours (0 to 23).
- Press the **Clock** button again.
- Turn the **Knob** to set the minutes (0 to 59).
- Press the **Clock** button again.
- Turn the **Knob** to set the month of the year (1 to 12).
- Press the **Clock** button again.
- Turn the **Knob** to set the day of the month (1-31).
- Press the **Clock** button again to return to normal display.

Sleep mode. When operating from batteries, the display goes blank when the timer is not in use. Press and hold the reset button to turn on the display if it is blank.

Red-Yellow-Green Display

- The **Green** lamp comes on when the timer is started and begins to blink at the **Green** warning time.
- When the **Yellow** warning time is reached, the **Green** lamp goes off and the **Yellow** lamp comes on.
- When the timer reaches zero, the **Red** lamp comes on and the **Yellow** lamp goes off. The timer stops when the **Red** lamp turns on.
- Press the **Reset** button on the TimeKeeper™ to turn off the **Red** lamp.

Total time	Green warning	Yellow warning	Red warning
0:00 - 0:29	0:02	0:01	0:00
0:30 - 0:59	0:20	0:10	0:00
1:00 - 1:59	0:30	0:15	0:00
2:00 - 3:59	1:00	0:30	0:00
4:00 - 99:59	2:00	1:00	0:00

Power Requirements

The timer may be powered from any of the following power sources.

- AC power: 50Hz or 60Hz 6VAC to 18VAC.
- DC power: Center positive, 7 volts to 25 volts DC.
- Batteries: 4 volts to 5.5 volts, Three AA batteries.
WARNING: do not exceed 5.5 volts on the battery input or the unit will be damaged.

AC Power operation. When operating from AC power, the clock accuracy is determined by the 50Hz or 60Hz source.

DC Power operation. When operating from DC power, the clock accuracy is determined by the internal 32,768Hz tuning fork crystal. The crystal accuracy is typically 20PPM.

Battery Power operation. When operating from batteries, the clock accuracy is determined by the internal 32,768Hz tuning fork crystal. The crystal accuracy is typically 20PPM. Battery operation is typically used to provide battery backup when AC or DC power is not available. The display will be dimmer when operating from batteries.

Current Consumption. With the display on, the unit consumes 20-30ma typical (60ma MAX.). In sleep mode, the unit consumes 30us,440ua typical.

Connectors.

- **Power.** Two-Pin quick snap or Coaxial 2.1mm /5.5mm for AC or DC power. Center pin positive.
- **Battery. 3-AAA Batteries.**
- **RJ-11 Accessory connector.** This TimeKeeper™ may be connected to another TimeKeeper™ using a modular crossover phone cord. One unit will function as a timer, the other unit(s) will function as a remote display(s).

In addition, this unit may be connected to Red-Yellow-Green displays, large LED wall displays, Crestron and/or AMX systems. An RS-232 adapter is required for Crestron and AMX systems.

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