
TORPEY TIME

Remote Time-of-Day Displays Wall Mounting, Analog/Digital

CLK-26



This clock display combines the advantages of an analog representation with the precision of digital readouts. It features a digital readout of hours:minutes:seconds in the center, with bright rectangular LED's indicating the seconds around a standard clock face. These LED's are jumper selectable to show seconds in one of four modes: point, accumulating/clear, or accumulate/progressively extinguish on either odd or even minutes. Marker LED's are placed at each five-second mark.

Dimensions

Display: 0.8" (20.3 mm) with rectangular LED's representing analog seconds.
Case: 13.8" W x 13.5" H x 2" D (351 x 343 x 51 mm)

Standard features and specifications

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[Home](#)[Previous](#)[Time Displays](#)[Next](#)[Contact Us!](#)

TORPEY TIME

Standard Features and Specifications for all Remote Time-of-Day Displays

Standard Features:

- Bright, flicker-free LED display.
- Ability to decode a variety of industry standard time codes through jumper settings.
- User programmable time zone offset.
- User settable to either a 12 hour display with AM/PM indicators or a 24 hour display.
- User selectable leading zero blanking.
- RS-422 time code input.
- Requires only a simple 2-conductor shielded cable to interface to a master clock. For desk mount units, 6 ft. of cable is built in.
- The CLK-20x and CLK-40x series displays are non-multiplexed. This means that you can use these displays on video and film without producing flicker.

Specifications:

Code Input:	SMPTE/EBU, DQS, ESE (TC76, TC89, TC90), NPR, NMEA, IRIG-B
Input Level:	2.6V p-p min.
Impedance:	10K Ω min., differential input (balanced)
Power Requirements:	In North America, all units are supplied with plug-in power adapter. In other countries, 12VAC, 50/60 Hz power required.

[Home](#)

[Back](#)

[Time Displays](#)

[Contact Us!](#)

TORPEY TIME

Master Up/Down Timers

STW-5



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STW-5R



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[Download Brochure](#)

Contents

- [Features](#)
- [Description](#)
- [Specifications](#)
- [Ordering Info](#)

Features

- Bright, flicker-free LED display.
- 10 hour range.
- Timing resolution of 1/10th of a second.
- Counts up or down.
- Can be loaded with any time value including negative time.
- Can be preset while running to shorten load time.
- Can be set to stop at zero or continue counting in either direction.
- Comes in a desk mount (STW-5) or a rack mount (STW-5R) case.

- Remote control option available for STW-5R upon request.
- Wide variety of [remote timer displays](#) can be used with both units.

Description

The STW-5 and the STW-5R are up/down timers that are functionally identical but are available in two case styles depending on how and where the customer intends to use them: desk mount or rack mount. The desk mount timer is housed in a rugged plastic case with a sloping front and conveniently placed pushbuttons. It offers portability so that the timer can be used anywhere in a facility. The rack mount version is a stationary unit that offers the convenience of being mounted into standard 19" rack frames. Both versions use 0.8" (20.3 mm), red LED displays with up/down LED indicators and are able to drive at least 50 [remote timer displays](#) using a simple 2-conductor shielded cable.

The STW-5R can be controlled remotely (available upon request). All of the front panel control functions can be accessed from the rear of the unit using a simple remote control or footswitch. The functions of the timer are actuated by a contact to ground. Using a remote control gives an operator the ability to control the timer from a second location apart from where the main unit is located.

Both units use larger digits to display the hour, minutes and seconds, and a smaller digit to display tenth of seconds. They operate from the power line frequency 50 or 60 Hz, which gives an accuracy better than 0.1 seconds per hour. They can be loaded with any time including negative time to the second, and count up or down from that time. They can also be preloaded while they are running to cut down on loading times during production. They can be set to continue counting past or stop at zero. Leading zero blanking can also be set.

The local controls are as follows:

HOURS	With the LOAD pressed, changes the hours.
STORE	Stores current time while running. With LOAD pressed, changes tens of minutes.
START	Starts the timer. With LOAD pressed, changes units of minutes.
STOP	Stops the timer. With LOAD pressed, changes tens of seconds.
RESET	Reset timer to zero. With LOAD pressed, changes units of seconds.
LOAD	Loads or preloads time into timer.
Up/Down	Switch between counting up or down. Works only when timer is stopped.

Specifications

Display: 0.8" (20.3 mm), bright red LED.

Dimensions:

STW-5: 6.35" W x 2.3" H x 3.8" D (161.3 x 58.4 x 96.5 mm).

STW-5R: 1 rack-unit --- 19" W x 1.75" H x 8.25" D (483 x 44.5 x 210 mm).

Weight (STW-5): 11.6 oz. (330 g.)

Time code output: A variant of DQS time code transmitted using RS-422 signal levels. Balanced, low Z.

Output drive capacity: 50 [remote timer displays](#), up to 4000 ft.

Ordering Info

TORPEY TIME

Master Clocks

CLK-50



[Download
Brochure](#)

Contents

- [Features](#)
- [Description](#)
- [Specifications](#)
- [Ordering Info](#)

Features

- Serial time code output on regular 2-conductor shielded cable.
- Daylight Savings/Standard Time switch.
- Local display uses large, bright LED digits and can be switched between 12 and 24 hour modes.
- Can be optionally referenced to NTSC color subcarrier (Model [CLK-50-1](#)).
- Optional battery backup available (for model [CLK-50-1](#) only).

Description

The CLK-50 is designed for those installations where only digital time displays are needed. It fits into standard racks occupying only 1 rack-unit. The local display is viewable up to a distance of 12 ft. (4 m).

The output is DQS time code which is a pulse-width modulated code transmitted on RS-422 signal levels. The time is transmitted in 24-hour format only, at a rate of 30 Hz. Of course, this does not mean that the time will be displayed only in 24-hour mode on our [remote time displays](#) since all of our time displays are capable of being switched to 12-hour mode as well.

With just a flick of a switch, the CLK-50 is also capable of switching not only its local display, but all of the [remote time displays](#) attached to it, to either Standard Time or Daylight Savings Time *instantly*. This makes a strong argument for customers who currently use impulse driven analog clocks and who are considering switching to all-digital time displays because of their advantages over analog clocks. Those customers who do have impulse driven analog clocks are all too familiar with the pain and aggravation associated with adjusting them to either time standard. It is a time and labor consuming task to re-adjust those clocks twice a year, which can generally only be done during off-peak hours. Also, because digital clocks switch instantly, it avoids the confusion that is often encountered when inadvertently reading time from an analog clock while it's being re-adjusted.

The standard CLK-50 model references to either 50 or 60 Hz power line frequency which it automatically detects and adjusts itself accordingly. This offers reasonable accuracy over a long period of time. For our customers who wish higher accuracy and whose facilities are equipped with a sync generator, we offer a variant, the [CLK-50-1](#), which includes the optional capability to be referenced to NTSC color subcarrier.

The optional battery backup ([BAT-50](#)) is only offered for the CLK-50-1 and allows it to keep time for up to an hour while the main power is off. The battery itself is simply a rechargeable 9V battery.

The local controls are as follows:

START	Starts the clock.
HOLD	Stops the clock.
2X	Run double speed.
RESET	Reset to allow initial setting.
12/24	Switch local display for either 12 or 24 hour mode.
DST/STD	Switch time for either Daylight Savings Time or Standard Time.

Specifications

Display: 0.8" (20.3 mm), bright red LED.

Dimensions: 1 rack-unit --- 19" W x 1.75" H x 8.25" D (483 x 44.5 x 210 mm).

Optional NTSC S/C ref. input: 3.579545 MHz sinewave, 2V p-p.

Time code output: DQS time code transmitted using RS-422 signal levels. Balanced, low Z.

Output drive capacity: 50 [remote time displays](#), up to 4000 ft.

Important!

The accuracy of this clock is entirely dependent on where it gets its reference from. For the CLK-50, accuracy depends on the local power line frequency. For the CLK-50-1, accuracy depends on the accuracy of the NTSC color subcarrier frequency from the sync generator used. *Therefore, we cannot state or guarantee the accuracy of the CLK-50 based master clocks.*