

All versions of NATIONAL TIME's TimeCast™ Digital Clocks are available with elapsed timer functionality. While functioning as a clock, it has all the features found in TimeCast™ Series Digital Clocks. This 6-digit high efficiency display can count up or down durations of 99:59:59. NATSCO's exclusive automatic dim feature decreases the brightness to compensate for low ambient light levels preferred in today's high-tech surgical suites while nine brightness levels may be selected to satisfy the brightest locations. The TimeCast™ Digital Clock/Timer units can operate as stand-alone clocks or integrate seamlessly into a WiFi, TimeCast™ Radio Frequency, or traditional wired clock system.



TimeCast™ Digital Clocks feature National Time's exclusive interactive display on the side of each clock. The display provides a user friendly interface to simplify installation, set the time for stand-alone operation, and configure clock settings, including brightness, auto-dim threshold, timer mode, and count down duration.



The optically isolated input allows control of the timer from other equipment for use as a code blue or other process cycle timer. An integrated beeper or remote output can signal the end of the countdown cycle. Local control of the timer functions is handled with the DLU-ET-CTRL series switch plates (order separately). The IP65 waterproof, sealed, heavy duty rocker switches on a stainless steel single-gang plate provide remote timer controls up to 100' away.

TimeCast™ Digital Clock/Timers are available in both 2.3" and 4" high visibility, wide bar digits. Digits are epoxy filled and sealed to provide the longevity you have come to expect from National Time and Signal. The 24V version can be powered with 24VAC or 24VDC. For line voltage 120V installations, there is a choice of a hard wired transformer that fits in a standard electrical box or a wall transformer that plugs into a nearby standard outlet. The durable steel housing, plug-in connectors and universal mounting plate simplify installation. Powder Grey finish standard, other finishes are available upon request.

Benefits:

- Keep all the features of the TimeCast™ Wired or Wireless Digital Clock and add elapsed timer functionality
- Stand-Alone Operation with 10 day battery-less backup timekeeping
- Count Up/Down Function with Selectable Timer Modes
- End of Count Down signaled by integrated beeper or auxiliary output
- 9 Brightness Levels with Auto-Dim Feature that adjusts to ambient light levels
- Available Sealed Switch Control (IP65) or Isolated Remote Input Control
- **Free National Time Device Cloud service** shows clock status
- Easy to read wide bar digits are epoxy sealed for longevity
- Made in USA

Timer Modes: Timer operation type can be selected through the user interface on the OLED display on the side of the TimeCast™ Digital Clock.

Timer Controls - (Default) Timer will be controlled by the remote switches. Select between timer/clock display, up/down, run/stop, and reset. Count down duration can be adjusted from the remote switches. DLU-ET-CTRL Switch Panel ordered separately.

Count-Down - If used on a 2-wire clock system or stand-alone, a momentary reset input can be used to initiate a count down sequence. Often used for class change timer function. Remote switches not operational.

Count-Up - If used on a 2-wire clock system or stand-alone, a reset input will change to the timer count up display while active. Removal of reset input will return to clock display. Often used as code blue timer integration with other equipment. Remote switches not operational.

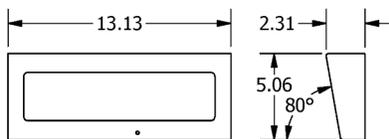
Beeper Output: Beeper settings can also be configured using the OLED display on the side of the clock.

Beeper Only - The end of a count down cycle will sound the integrated beeper inside the clock.

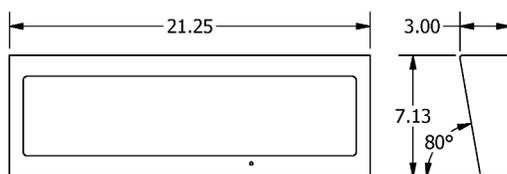
Relay Only - The end of a count down cycle will activate the clock's Auxiliary Output for the selected beeper duration. Used to activate remote signaling equipment.

Both - At the end of a count down cycle, both the internal beeper and Auxiliary Output will activate for the selected beeper duration.

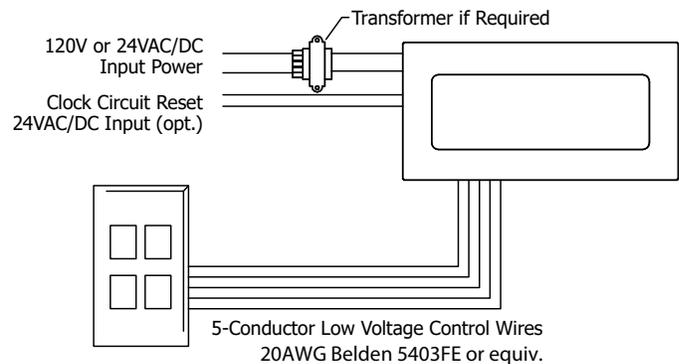
Specifications



225 Series 6-Digit



400 Series 6-Digit



DLU-ET-CTRL

Current Draw

Part No.	Units mA		24VDC		24VAC		WT 120V		HW 120V	
	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
SF-D225R-6ET	44	57	61	75	38	42	30	33		
SF-D400R-6ET	49	70	66	87	38	48	29	32		

Typical current for brightness setting = 4;

Maximum current for brightness setting = 9

Devices connected to Auxiliary Output will increase Current Draw values

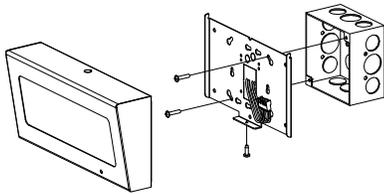
WiFi Clock Specifications: 2.4GHz frequency

Supported WiFi Networks: 802.11b/g/n using WPA, WPA2, WEP, open, EAP using 802.1x MSCHAPv2

Radio Frequency Systems: For more information about TimeCast™ Radio Frequency Digital Clocks, refer to Bulletin C-627

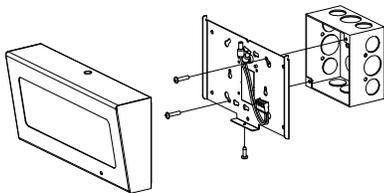
Wired Clock Systems: For a list of supported clock correction formats, refer to Bulletin C-630

Typical Installations & Accessories



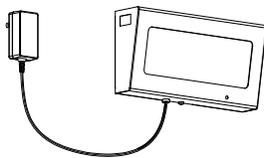
24V Clocks with Standard Hanger Bracket

Included with all TimeCast™ digital clocks, the Standard Hanger Bracket mounts to Handy/Single Gang/Double Gang/4 Square electrical boxes. Route the included wire harness through one of the knock-outs in the center of the bracket.



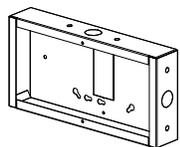
120V Hard Wired Transformer

The transformer assembly comes mounted to the back of the Standard Hanger Bracket. Connect the 120VAC wires to the transformer and mount the bracket to a Deep 4 Square box with the transformer inside the box.



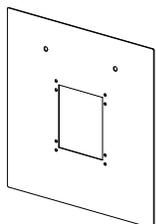
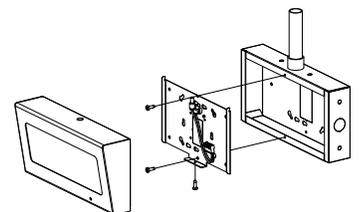
120V Wall Transformer

Wall Transformer versions include the Standard Hanger Bracket. The wall transformer with 6' cord plugs into a nearby outlet. There are knock-outs in the top and bottom of the clock case to allow the wall transformer cable to pass through using the provided strain relief.



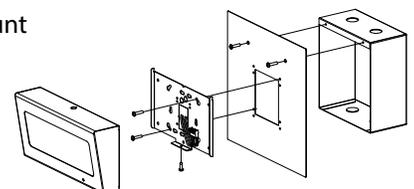
D225-6-SURF BOX : Surface Mount Box for 6-Digit D225 D400-6-SURF BOX : Surface Mount Box for 6-Digit D400

The Surface Mount Box can be mounted to Handy/Single Gang/Double Gang/4 Square electrical boxes or directly to the wall surface. The Surface Mount Box provides room for a hard wired transformer and has knock-outs for conduit entry. The Surface Box adds 1.75" of depth for D225s and 2" for D400s.



ADAPT-143 : Flush Mount Adapter for Digital Clocks

Adapter plate allowing D225 and D400 digital clocks to mount to a National Time 143 Flush Clock Wall Box. The ADAPT-143 plate is 10" x 10".



For Stand-Alone Elapsed Timers, order a WiFi Elapsed Timer, and switch to Stand-Alone timebase through the user interface.

Model Number	Description
WiFi Elapsed Timer Clocks	
SF-D225R-6ET-WIFI-24V	TimeCast 2.3" Elapsed Timer, Red 6-Digit, 24V, WiFi
SF-D225R-6ET-WIFI-120V	TimeCast 2.3" Elapsed Timer, Red 6-Digit, w/120V Hard-Wired Transformer, WiFi
SF-D225R-6ET-WIFI-120VWT	TimeCast 2.3" Elapsed Timer, Red 6-Digit, w/120V Wall Transformer, WiFi
SF-D400R-6ET-WIFI-24V	TimeCast 4" Elapsed Timer, Red 6-Digit, 24V, WiFi
SF-D400R-6ET-WIFI-120V	TimeCast 4" Elapsed Timer, Red 6-Digit, w/120V Hard-Wired Transformer, WiFi
SF-D400R-6ET-WIFI-120VWT	TimeCast 4" Elapsed Timer, Red 6-Digit, w/120V Wall Transformer, WiFi
Radio Frequency Elapsed Timer Clocks	
SF-D225R-6ET-RF-24V	TimeCast 2.3" Elapsed Timer, Red 6-Digit, 24V, Radio Frequency
SF-D225R-6ET-RF-120V	TimeCast 2.3" Elapsed Timer, Red 6-Digit, w/120V Hard-Wired Transformer, Radio Frequency
SF-D225R-6ET-RF-120VWT	TimeCast 2.3" Elapsed Timer, Red 6-Digit, w/120V Wall Transformer, Radio Frequency
SF-D400R-6ET-RF-24V	TimeCast 4" Elapsed Timer, Red 6-Digit, 24V, Radio Frequency
SF-D400R-6ET-RF-120V	TimeCast 4" Elapsed Timer, Red 6-Digit, w/120V Hard-Wired Transformer, Radio Frequency
SF-D400R-6ET-RF-120VWT	TimeCast 4" Elapsed Timer, Red 6-Digit, w/120V Wall Transformer, Radio Frequency
DLX 2-Wire System Elapsed Timer Clocks	
SF-D225R-6ET-DLX-24V	TimeCast 2.3" Elapsed Timer, Red 6-Digit, 24V, DLX 2-Wire
SF-D225R-6ET-DLX-120V	TimeCast 2.3" Elapsed Timer, Red 6-Digit, w/120V Hard-Wired Transformer, DLX 2-Wire
SF-D400R-6ET-DLX-24V	TimeCast 4" Elapsed Timer, Red 6-Digit, 24V, DLX 2-Wire
SF-D400R-6ET-DLX-120V	TimeCast 4" Elapsed Timer, Red 6-Digit, w/120V Hard-Wired Transformer, DLX 2-Wire
DLU 3-Wire System Elapsed Timer Clocks	
SF-D225R-6ET-DLU-24V	TimeCast 2.3" Elapsed Timer, Red 6-Digit, 24V, DLU 3-Wire
SF-D225R-6ET-DLU-120V	TimeCast 2.3" Elapsed Timer, Red 6-Digit, w/120V Hard-Wired Transformer, DLU 3-Wire
SF-D400R-6ET-DLU-24V	TimeCast 4" Elapsed Timer, Red 6-Digit, 24V, DLU 3-Wire
SF-D400R-6ET-DLU-120V	TimeCast 4" Elapsed Timer, Red 6-Digit, w/120V Hard-Wired Transformer, DLU 3-Wire
Accessories	
DLU-ET-CTRL	Remote Switch Controls for Digital Elapsed Timers
DTC-AUX-CABLE	Auxiliary Output Cable for TimeCast Digital Elapsed Timers
A050-W-010266-4	4-Wire Digital Clock Harness <i>(Included with DLU clocks)</i>
D225-6-SURF BOX	Surface Box for 6-Digit D225 Clocks
D400-6-SURF BOX	Surface Box for 6-Digit D400 Clocks
ADAPT-143	Adapter Plate (10x10) for mounting to NATSCO #143 Analog Clock Box

Default Color is Grey. Add Suffix -BLK to Part Number for Black Enclosures.