

Lean Numeric Operating Instructions

V1.0

Setting the Current Date and Time

Quick Press: Quickly press and release the button

Long Press: Press and hold the button for at least two seconds before releasing.

1. **Long Press** the SET button. “**YEAR**” will be displayed on the screen followed by a pause, and then a 4 digit number will appear on the display.
2. **Quick Press** the UP and DN buttons to adjust the current year
3. **Quick Press** the SET button to move to the current month setting. “**M**” will appear on the left of the display denoting “current month”
4. **Quick Press** the UP and DN buttons to adjust the current month
1 = January to 12 = December
5. **Quick Press** the SET button to move to the current day of the month setting. “**d**” will appear on the left of the display denoting “current day of the month”
6. **Quick Press** the UP and DN buttons to adjust the current day of the month
1 to 31
7. **Quick Press** the SET button to move to the current hour of the day. “**h**” will appear on the left of the display denoting “current hour of the day”
8. **Quick Press** the UP and DN buttons to adjust the current hour of the day
0 = midnight to 23 = 11PM
9. **Quick Press** the SET button to move to the current minute. “**m**” will appear on the left side of the display denoting the current minute of the hour
10. **Quick Press** the UP and DN buttons to adjust the current minute
0 to 59
11. **Quick Press** the SET button to move to the current second. “**S**” will appear on the left of the display denoting “current second”
12. **Quick Press** the UP and DN buttons to adjust the current second
0 to 59
13. **Quick Press** the SET button to save the current date/time. The time you just entered will scroll across the display. The date and time displayed is now set.
To check the current date time Quick Press SET + UP (press both buttons at the same time)

Setting the Display Brightness

Quick Press: Quickly press and release the button

Long Press: Press and hold the button for at least two seconds before releasing.

1. **Quick Press** the UP + DN buttons. The display brightness will adjust. When the maximum brightness is reached, the setting will wrap around to the dimmest setting.
2. Continue to **Quick Press UP + DN** until the desired brightness is displayed. Your choice will be automatically saved.

Setting the Count Direction

Quick Press: Quickly press and release the button

Long Press: Press and hold the button for at least two seconds before releasing.

3. **Quick Press** the SET + DN buttons. The current setting will display for two seconds. “**UP**” = **Count Up**, “**DN**” = **Count Down**, “**OFF**” = **do not count**.
4. Continue to **Quick Press SET + DN** until the desired setting is displayed. Your choice will be automatically saved.

Appendix

Startup Sequence

When first powered on the device will display an RTC code to let you know the status of the internal clock. Then “HELLO FX.X” denoting the firmware version of the device, followed by the count direction.

Example: rtc [PAUSE] HELLO F1.5 [PAUSE] UP

Denotes a programmed clock, device running firmware version 1.5, and currently configured to count up.

Reference Tables

RTC Startup Codes		
Code	Description	Notes
Err	Error. The clock read was unsuccessful.	Make sure a CR927 battery is installed and has at least a 3V charge. If no battery is installed, the RTC battery must be grounded. You can insert a plug to directly connect the battery housing to the trace.
SC	The rtc clock was not active and needed to be started	
dEF	The time received from the rtc was invalid, so the default date/time of 2025-01-01 00:00:00 was set.	Expected when starting the device for the first time with a fresh battery or no battery with plug
rtc	The current time was successfully read from the real time clock.	Expected result when RTC is set and running properly

Count Direction		
Code	Description	Notes
UP	Device counts up	At midnight, 1 will be added to the current count
Dn	Device counts down	At midnight, 1 will be subtracted from the current count
OFF	Device does not count.	The count will only change if adjusted manually with the pushbuttons

Button Commands		
Code	Description	Notes
DN	Subtract 1 from the current count	Hold to count fast. The longer the button is held, the faster the count.
SET	Reset count to zero	Hold to set current time
UP	Add 1 to the current count	Hold to count fast. The longer the button is held, the faster the count.
UP + DN	Cycle display brightness	Quickly press UP and DOWN buttons at the same time to cycle through display brightness options
SET + DN	Cycle count direction	Quickly press SET and DOWN buttons at the same time to cycle through the count directions.
SET + UP	Display current date/time	Quickly press SET and UP at the same time to scroll the current date and time across the display