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StarLink™ SLE-MAX2-DEMO Signal Strength Tester Operating Instructions



WI2788LF 10/24

The NAPCO StarLink **SLE-MAX2-DEMO** is both a **sales demo** and a **site survey tool**. **MAX2**, the industry's only UL 864 Certified, SOC 2 compliant multi-carrier commercial fire communicator, has the ability to display for the customer the active carrier and its signal quality. The battery-powered **SLE-MAX2-DEMO** allows the commercial fire sales professional to easily demonstrate for potential subscribers the power of **MAX2** and its ability to quickly recover from a carrier service interruption and lock on to the standby cellular carrier. Simply show the subscriber the connected network, displayed by the **RED Verizon** or the **BLUE AT&T** LED indicator. Also displayed is the signal quality, indicated by the number of blinks of the **Green RF Signal Strength** LED (see image below). Press the **Switch SIM Button** to initiate a switchover to the standby carrier. The standby carrier LED will blink while it is navigating the carrier switchover and light solid after locking on to the carrier. This demonstration gives the subscriber peace of mind knowing that their life safety communication path will always be available, even in the case of a major carrier service interruption.

The **SLE-MAX2-DEMO** can also be used as a battery powered site survey tool. The salesperson or the technician can qualify a potential site by observing the signal quality of each carrier. This will ensure that if the NAPCO exclusive **Super Dual™** UL 864 10th edition Certified supervised Dual Path, Dual Carrier service plan is required, it will be properly supported.

Super Dual™ provides two fully supervised cellular reporting paths (AT&T and Verizon) as an alternative to traditional cell / IP dual path reporting. This new UL 864 10th edition Certified *dual path; dual cellular* feature eliminates the fire system designer's ordeal of getting permission from the subscriber's IT department to connect to their network *when dual path reporting is required*.

SPECIFICATIONS

Rear Battery Pack: 12V, 3000mAh

Important: Battery Pack switch must be switched to the **ON** position when charging battery.

Battery Life Indicator LEDs: Five (5) small green LEDs display the real time percentage of remaining battery power. The unit may be charged at any time but we recommend recharging the pack before use when only one LED is lit.

Typical Battery Life: About 25 hours of continuous use after a full charge.

Battery Charger: 12.6V / 0.5A wall plug adapter. Orange LED lights when charging; green LED lights when charging process completes.

Dimensions (W x H x D): 8 x 5²⁹/₆₄ x 1 1/2" (20.3 x 13.9 x 3.8cm)

Operating Temperature: 0° - 49°C (32° - 120°F)

Humidity: Maximum 93% Non-Condensing

Indoor / dry location use only

OPERATION

1. Power on (press "I" on the Power Switch).
2. Wait 1-2 minutes for unit to enter "**Standby Mode**" with LEDs indicating:
 - **Red Diagnostic** LED flashes, then turns off
 - **Green RF Signal Strength** LED flashes
 - **Yellow Status** LED momentary flashes
3. Place unit in potential installation location.
4. Wait 2 minutes.
5. Count the **Green RF Signal Strength** flashes (**acceptable power level is greater than or equal to 2 blinks**).

- If moving location, go to step 4.
- If the **Red Diagnostic** LED blinks or turns on solid, you MUST go to step 2. If step 2 LED flashes do not occur, signal is likely too weak (try a different location).
- If switching carriers, press the **Switch SIM Button** on the face of the unit, wait 2 minutes and continue at step 5.

Power off when not in use and when charging. After powering off, wait at least 30 seconds before powering on.

LED DESCRIPTIONS

In addition to the two (2) active network LEDs (**RED Verizon** or **BLUE AT&T**), there are four (4) other LEDs on the front of the unit:

Green RF Signal Strength LED: Labeled "D3" on the PCB. Every 30 seconds, the StarLink communicator receiver turns on and listens to the cell tower. Depending on the signal strength detected, this LED will blink from 1 to 5 times at a constant rate (with a short delay between blink cycles) to provide a signal strength indicator that is updated constantly and is always displayed. **Acceptable power level is greater than or equal to 2 blinks.**

IMPORTANT: The **Green RF Signal Strength** LED will provide a valid reading *only* when the **Red Diagnostic** LED is NOT lit (blinking or solid) and the **Yellow Status** LED is not on solid.

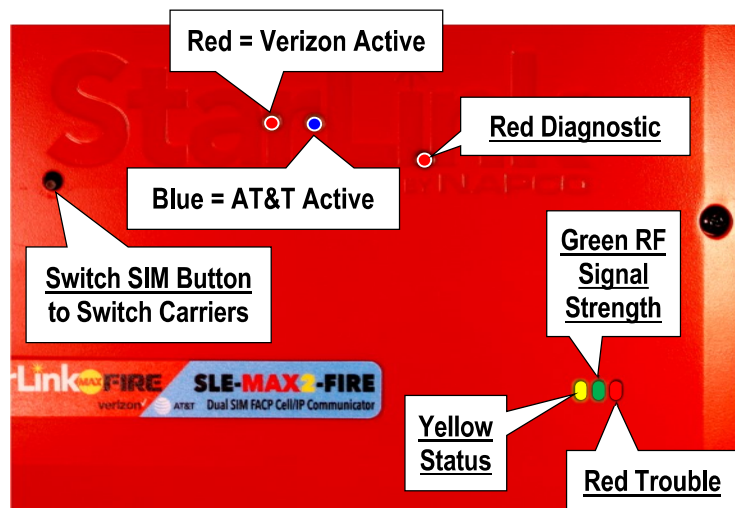
Red Diagnostic LED: Labeled "D7" on the PCB, this LED will light and flash when the unit is powered (see **OPERATION**, above). One blink indicates a weak or non-existent signal from the network (green **RF Signal Strength** LED is off).

Yellow Status LED: Labeled "D4" on the PCB. When the unit is first powered, this LED will turn on solid for a few seconds, flash, remain on solid again and then turn off. After a connection to the cell tower is made and the unit is in a normal standby condition, it will then blink momentarily every 10 seconds.

Red Trouble LED: Labeled "D5" on the PCB, this LED will blink as follows:

- **1 Blink:** Low Aux Power input voltage

(continued)



Front LED and Button Descriptions

- **2 Blinks:** Battery trouble
- **3 Blinks:** Alarm report Failed to Communicate
- **4 Blinks:** RF trouble (antenna connection or cellular registration)
- **5 Blinks:** Network trouble (signal unable to reach the SLE Control Center)
- **6 Blinks:** Unit disabled (reporting or control panel downloading not allowed)
- **7 Blinks:** Unit was shut down and has no functionality; requires a restart (full power down and full power up sequence) to restore operation
- **8 Blinks:** Telco Line Cut (this is not the DACT interconnect to the communicator)

REAR POWER PACK

The rear power pack has a Power Switch, a Power Charging Socket and Battery Life Indicator LEDs:

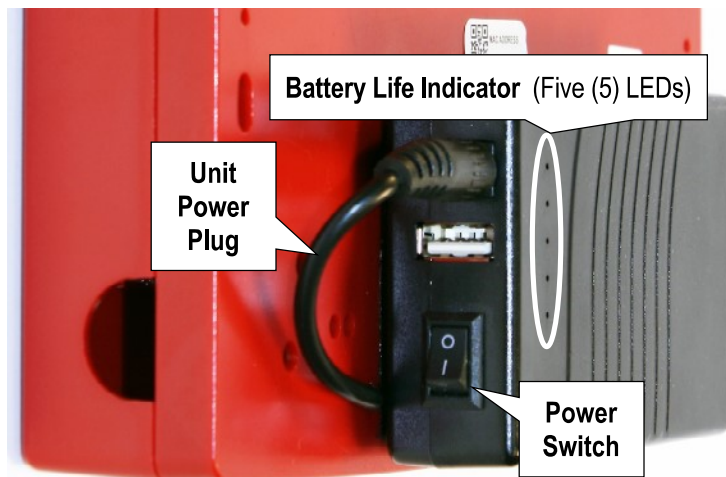
- **Power Switch:** To power the unit, insert the Unit Power Plug into the Power Charging Socket and press the "I" on the Power Switch to turn the power pack **ON**. Power Switch must be switched **ON** for every use of the unit and remain untouched during use. To power **OFF** the unit, press the "O" on the Power Switch when not in use.
- **Power Charging Socket:** When the battery pack is low, insert the 12.6V / 0.5A charger into a standard unswitched 120VAC wall outlet, then insert the charger plug into the Power Charging Socket and press the "I" on the side of the Power Switch (**ON**). *Power Switch MUST BE switched **ON** to properly charge the battery.* Typical charging time to charge

a fully depleted battery is 6 hours. After charge is complete, remove charger plug.

- **Battery Life Indicator LEDs:** See **SPECIFICATIONS**.

- **Battery Charger LEDs:** See **SPECIFICATIONS**.

BATTERY PACK CAUTION: Risk of fire and burns; do not open, bend, crush, drop, damage, heat above 65°C or incinerate. If damaged, battery pack may release toxic materials. Dispose of at a designated facility.



Power Switch and Rear Power Pack

NAPCO LIMITED WARRANTY

NAPCO SECURITY TECHNOLOGIES, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for thirty-six months following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

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NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. **Caution:** Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment. All rights reserved. All trademarks, service marks, and product or service names described in this manual are for identification purposes only and may be trademarks or registered trademarks of their respective owners. *The absence of a name or logo in this document does not constitute a waiver of any and all intellectual property rights that NAPCO Security Technologies, Inc. has established in any of its product, feature, or service names or logos.* **Note:** All images shown are for illustration purposes only; actual product may vary due to production enhancements.