

Medset FLASHLIGHT ERGO Tango+ Interface Notes

To setup Tango+ with the Medset Flashlight ERGO stress system, simply follow the directions below. ***Note - A Tango+ with ECG is required.**

1. Verify Correct RS-232 and Patient Cables

- **RS-232 Cable** – used to communicate with the PADSYS by Medset. This cable enables the PADSYS to prompt Tango+ when it needs a BP measurement, and allows the Tango+ BP reading to be transferred to the PADSYS display and reports.
 - SunTech Part Number = 91-0013-00
 - Connection Ends:

PC Connection
9 pin female

Tango+ Connection
9 pin female

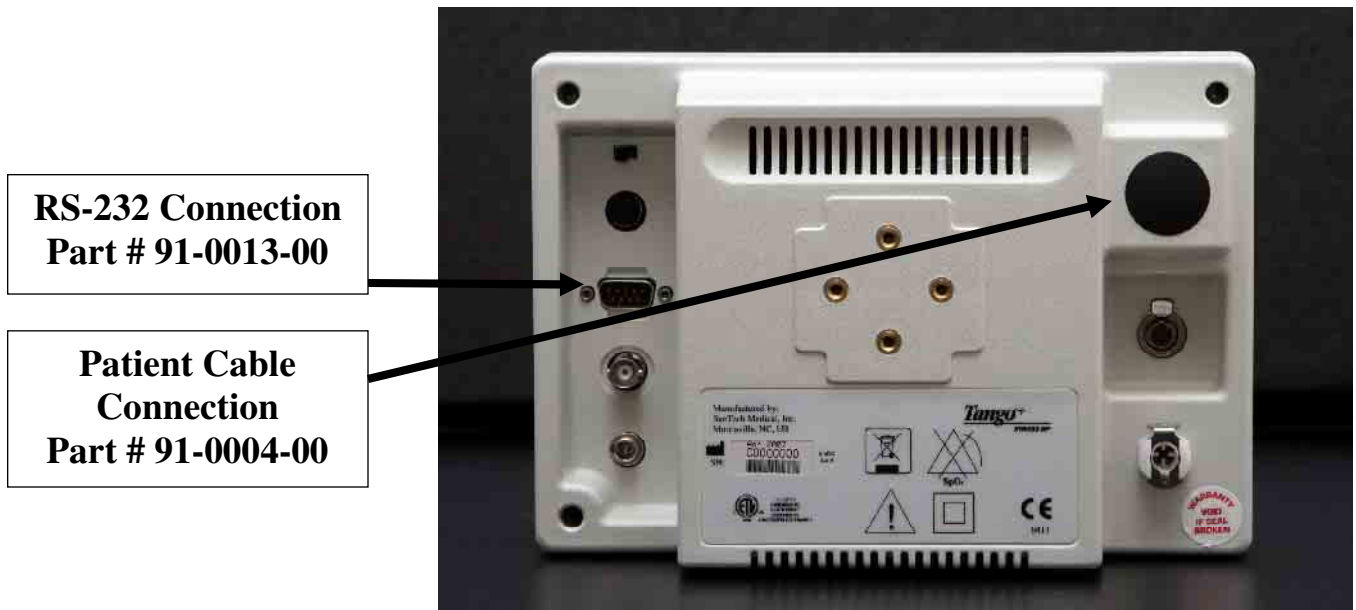


- **Patient Cable** – ECG Cable (3 leads) that will provide the ECG signal from the patient to the Tango+.
 - SunTech Part Number = 91-0004-00

Tango+ Connection
AAMI connector



Tango+ Monitor



2. Connect the RS-232 Cable

From: the RS-232 connection on the rear panel of the Tango+.

To: the RS-232 connection on the rear of the PC, or connection on USB/RS232 converter.

3. Connect the Patient Cable

From: Tango+ Internal ECG connection.

To: the patient.

3. Tango+ Monitor Setup

- When the operating screen is displayed, press the **SELECT** button 2 times. This will bring up the **MAIN MENU** screen.
- Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.
- Using the UP or DOWN arrows, highlight **STRESS SYSTEM** and press the **SELECT** button.
- Using the UP or DOWN arrows, scroll through the list until **Medset** is highlighted and press the **SELECT** button to confirm the choice.
- Using the UP or DOWN arrows, select **EXIT** twice to return to the operating screen.

4. PADSY System Setup

- Click on TOOLS in navigation tree.
- Choose HARDWARE
- Click on NEW DEVICE
- Choose SPHYGMANOMETER and click NEXT.
- Click to SUNTECH TANGO+/CYCLE driver and then click NEXT.
- Click to Interface and choose the COM-PORT number and click to FINISH.

FAQs for Tango+

Q. The Tango+ displays a status message. What does it mean and what do I do?

A. See the Quick Set-Up guide (that is attached to your Tango+) or the Troubleshooting section in your User's Guide for details on the Status Message and solution.

Q. The Tango+ monitor returns results of 0/0 after blood pressure measurements. What do I need to do to get a BP reading?

A. There are certain noisy conditions where the Tango+ cannot accurately measure BP. When the Tango+ encounters these situations, it returns a reading of 0/0. Placement of the microphone attached to the cuff is critical for reliable operation of the Tango+. Follow the instructions in the **Cuff Tutorial** (located on the SunTech Medical website under Products → Tango+) for correct microphone placement. Follow steps 1 and 2 in Conducting the Stress Test in the User's Guide to provide the best conditions to obtain a measurement.

Q. Can I use a heart rate or blood pressure simulator to test whether the Tango+ is working correctly with my stress system?

A. You cannot use a heart rate or blood pressure simulator to test whether the Tango+ is working with your stress system. The Tango+ monitor requires that the ECG signal and the Korotkoff sounds, collected by the microphone in the cuff, originate from the same source, meaning the patient.

Q. I cannot clearly see the Tango+ display. How do I fix this?

A. If you cannot clearly read Tango+, you can adjust the contrast of the display by following these steps:

1. When the operating screen is displayed, press the **SELECT** button 2 times. This will bring up the **MAIN MENU** screen.
2. Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.
3. Using the UP or DOWN arrows, highlight **CONTRAST** and press the **SELECT** button.
4. Using the UP or DOWN arrows, modify the contrast of the screen. When you are finished, and press the **SELECT** button to confirm the choice.
5. Using the UP or DOWN arrows, select **EXIT** twice to return to the operating screen.

Q. My Tango+ displays a message, "Please VERIFY CALIBRATION" or "Equipment Maintenance and Calibration Required." What do I do?

A. Verification of Pressure Calibration

Equipment Required:

1. Calibrated electronic manometer or equivalent.
2. 500mL volume or the Orbit-K Adult Plus cuff wrapped around something that will not break or crush (no glass).
3. Hand Inflation Bulb with bleed valve.
4. Tubing, Tee pieces, and miscellaneous connectors or you can order the T-Tube Kit (SunTech Part # 98-0030-00).

Procedure:

5. When the operating screen is displayed, press the **SELECT** button 2 times. This will bring up the **MAIN MENU** screen.
6. Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.
7. Using the UP or DOWN arrows, highlight **VERIFY CALIBRATION** and press the **SELECT** button. The monitor will close its bleed valves and will display on its screen the pressure applied to the patient hose connector.
8. Verify the Tango+ calibration by manually inflating and checking the manometer against the pressure reading on the Tango+ display.
9. Once the calibration has been completed, use the UP or DOWN arrows to select **EXIT** twice and return to the operating screen.

Resetting the Calibration Reminder

1. Once the calibration is verified, you can reset the reminder.
2. From the main screen, press and hold the **SELECT** button with one hand.
3. While holding the **SELECT** button, press the **UP** arrow and release, then the **DOWN** arrow and release.
4. Release the **SELECT** button and the **DIAGNOSTIC MENU** will be displayed.
5. Using the UP or DOWN arrows, highlight **CALIBRATION COUNTS** and press the **SELECT** button.
6. Press the **UP** arrow to reset the reminder.
7. Press the **SELECT** button to exit the **DIAGNOSTIC MENU**.
8. Using the UP or DOWN arrows, select **EXIT** to return to the operating screen.